

# Cutyclopatda saritammica; 

OR, A

## DICTIONARY

of

# ARTS, SCIENCES, AND MISCELLANEOUS 

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# Encyclopedia Britannica. 

## R H I

Rhizo-
phora.

RHIZOPHORA, the Mangrove, or Mangle, a genus of plants belonging to the dodecandria clafs; and in the natural method ranking under the 12 th order, Holoracere. Thefe plants are natives of the Eaft and Weft Indies, and often grow 40 or 50 feet high. They grow only in water and on the banks of rivers, where the tide flows up twice a-day. They preferve the verdure of their leaves throughout the year. From the loweft branches iffue long roots, which hang down to the water, and penetrate into the earth. In this pofition they refemble fo many arcades, from five to ten feet high, which ferve to fupport the body of the tree, and even to advance it daily into the bed of the water. Thefe arcades are fo clofely intertwifted one with another, that they form a kind of natural and tranfparent terrace, raifed with fuch folidity over the water, that one might walk upon them, were it not that the branches are too much encumbered with leaves. The moft natural way of propagating thefe trees, is to fuffer the feveral flender fmall filaments which iffue from the main branches to take root in the earth. The moft common method, horrever, is that of laying the fmall lower branches in bafkets of mould or earth till they have taken root.

The defcription juft given pertains chiefly to a particular fpecies of mangrove, termed by the Weft Indians black mangles, on account of the brown durky colour of the wood. The bark is very brown, fmooth, pliant when green, and generally ufed in the Weft India iflands for tanning of leather. Below this bark lies a cuticle, or fkin, which is lighter, thinner, and more tender. The wood is nearly of the fame colour with the bark; hard, pliant, and very heavy. It is frequently ufed for fuel, for which purpofe it is faid to be remarkably proper; the fires which are made of this wood being both clearer, more ardent and durable than thofe made of any other materials whatever.-The wood is compact ; almoft incorruptible; never fplinters; is eafily worked; and were it not for its enormous weight, would be commodioufly employed in almoft all kinds of work, as it poffeffes every property of good timber. To the roots and branches of mangroves that are immerfed in the water, oyfters frequently attach themfelves; fo that wherever this curious plant is found growing on the fea-fhore, oyftcr-fifhing is very eafy; and in fuch cafes thefe fhell-fifh may be literally faid to grow upon trees.

The red mangle or mangrove grows on the for. VoL. XVIII Part I.

## R H O

fhore, and at the mouth of large rivers ; but does not advance, like the former, into the water. It generally rifes to the height of 20 or 30 feet, with crooked, knotty branches, which proceed from all parts of the trunk. The bark is flender, of a brown colour, and, when young, is fmooth, and adheres very clofely to the wood; but when old, appears quite cracked, and is eafily detached fium it. Under this bark is a fkin as thick as rarchment, red, and adhering clofely to the wood, from which it cannot be detached till the tree is felled and dry. The wood is hard, compact, heavy, of a deep red, with a very fine grain. The pith or heart of the wood being cut into fmall pieces, and boiled in water, imparts a very beautiful red to the liquid, which communicates the fame colour to wool and linen. The great weight and hardnefs of the wood prevent it from being generally ufed. From the fruit of this tree, which, when ripe, is of a violet colour, and refembles fome grapes in tafte, is prepared an agreeable liquor, much efteemed by the inhabitants of the Caribbee iflands.
White mangle, fo termed from the colour of its wood, grows, like the two former, upon the banks of rivers, but is feldom found near the fea. The bark is gray; the wood, as we have faid, white, and when green fupple; but dries as foon as cut down, and becomes very light and brittle. This fpecies is generally called rope-mangrove, from the ufe to which the bark is applied by the inhabitants of the Weft Indies. This bark, which, on account of the great abundance of fap, is eafly detached when green from the wood, is beaten or bruifed betwixt two fones, until the hard and woody part is totally feparated from that which is foft and tender. This laft, which is the true cortical fubflance, is twifted into ropes of all fizes, which are exceedingly ftrong, and not apt to rot in the water.
RHODE Island, one of the fraalleft of the United States of America, not exceeding 47 miles in length and 37 in breadth, is bounded on the N . and E. by the province of Maffachufetts ; on the S. by the Atlantic, and on the W. by Connecticut. It is divided into five counties, viz. Newport, Providence, Wafhington, Brifol, and Kent, which are fubdivided into 30 townthips, containing 68,825 inhabitants, and including 948 flaves. This ftate is interfected by rivers in all directions; and the winters in the maritime parts of it are milder than in the interior of the country. The fummers are delightful, and the rivers and bays teem with

Rhode. Illand.

## $\mathrm{R} \mathrm{H} \mathrm{O} \quad\left[\begin{array}{l}2\end{array}\right.$

RaoleI:land. fihs it diffient kinds. It is gencrally allowed by travellers, that Newport is the belt filh market in the world. This ftate allo prnduces rye, barley, oats, and in fome places wheat fufficiont for home confumption. Cyder is made here for exportation; and it abounds with graffes, fruits, and culinary roots and plants, all of an excellent quality. The north-weitern parts are but thiniy inhabited, and more roc', , and barren than the reft of the ftate. There are extenfive dairies in fome parts of it, which produce butter and cheefe of the beft quality, and in large quantities for exportation. Iron ore is found in great abundance in many parts of the flate; and the iron-works on Patuxct river, 12 miles from Providence, are fupplied with ore from a bed about four rciles and a half diflant, whese a variety of ores, curious Ionec, and ochres, are alfo met with; and there is a copper mine mixed with iron in the fownlhip of Cumberland. This ore is ftrongly impregnated with loadftone, large pieces of which have been found in the vicinity; but no method has yet been difcovered of working it to advantage. Here alfo lime fone abounds, of which large quantities of lime are made and exported. This ftone is of various colours, and is the genuine matble of the white, plain, and variegated kinds, receiving as fine a polifh as any fone in America. In this fate there are alfo feveral mineral fprings, to one of which, not far from Providence, numbers refort to bathe, and d:ink the waters. The chief towns of the flate are Providence and Newport. The flave-trade, which was a fource of weath to many, has been happily abolifhed. Briftol carries on a confiderable trade to Africa, the Weft Indics, and different parts of the United States: but the inhabitants of the profperous town of Providence have in their hands the greatelt part of the commerce; they had 129 veffels in the year 1791. The common exports are flax-feed, timber, horfes, cattle, beef, pork, filh, poultry, onions, butier, cheefe, barley, grain, fpirits, cotton and linen goods. The imports conffit of Weft India and European goods, and logwood is brought from the bay of Honduras. At the different ports of this ftate more than 600 veffels enter and clear out annually. The amount of exports in 1994, was valued at 954.573 dollars. At Providence there is a cotton manufactory, the produce of which is fent to the fouthern ftates; but the manufactures of bar and fheet iron, fteel, nail-rods, and nails, implements of hufbandry, floves, pots, \&c. are the moft extenfive. The conftitution of the ftate is founded on the charter granted in 1663 by Charles II.; and the revolution made no effential change on the form of government. The legiflature confifts of two branches; a fenate compofed of ten members, befides a governor and deputygovernor, and a houle of reprefentatives. The members of the legiflature are chofen twice a year, and there are two feffions of this body annually. It was firf fettled from Maffachufetts. So little has the civil authority to do with religion here, that no contract between a minifter and a fociety is of any force, for which reafon a grcat number of fects have always been found here; yet it is faid that the fabbath, and all religious inftitutions are more neglected in this, than in any other of the New England ftates.

Rhode-isla nd, an ifland of N. America, in a flate of the fame name, fituated between $41^{\circ} 23^{\prime}$ and $41^{\circ}$ $42^{\prime} \mathrm{NV}$. Lat. and between $71^{\circ} 17^{\prime}$ and $71^{\circ} 27^{\prime} \mathrm{W}$. long.
$2] \quad \mathrm{H} \quad \mathrm{H}$
from Greenwich, or about $1 ;$ miles long, and its medium breadth about 3 and a half. It is a famous refort for invalids from the fouthern clinuates, as it is exceedingly pleafant and heaithful, being at one period regarded as the Eden of America; but the clange is great which has been effected by the ravages of war, and a decreafe of bufinelis. Between 30,000 and 40,000 heepp are fed upon this illand, befides catlle and horfes. 'I he foil, climate, and fituation of this ifland, are perhaps not exceeded by any other in the world.

RHODES, a celebrated ifland in the Archinelago, Anca-nt the largeft and moft eaiterly of the Cyclades, was ram-ans known in ancient times by the names of A/feria, O. etpraology. phinfa, Ethiroa, Trinacria, Curymbia, Poeffa, Alalyyria, Marcia, Olorffa, Stadta, Telchimis, Pelagia, and Rhodus. In later ages, the namie of Khodus, or Kliodes, prevailed, from the Greek nord rlodon, as is commonly fuppofed, fignifying a " rofe; " the ifland abounding very much with thele flowers. Others, however, give different etymologies, among which it is difticult to find one preferable to another. It is about 20 mules diftant from the coafts of Lycia and Cavia, and abuut 120 miles in compafs.

Several ancient authors affert, that Rhodes was for-Its origin. merly covered by the fea, but gradually raifed its head above the waves, and became an illand. Dclos and Rhodes (fays Pliny), iflands which have long been * * Pliny, celebrated, fprung at firft from the iea. The lame fact lib. ii. caipo is fupported by fuch a variety of other evidence as render it indubitable. Philo + afcribes the event to the + Pbilo de decreafe of the waters of the ocean. If his conjcciure Mizm.'. be not without foundation, moft of the ifles of the Archipelago, being, lower than Rhodes, mult have had a fimilar origin. But it is much more probable that the volcanic fires, $11^{*}$.ich in the fourth year of the 125 th O. lympiad, raifed Therafia and Thera, known at prefent by the name of Samorin, from the depths of the lea, and have in our days thrown out feveral fmall iflands adj?cent, alfo produced in fome ancient cra Rhodes aid Delos.

The firft inhabitants of Rhodes, according to Diodorus Siculus, were called the Telchines, who came originally from the ifland of Ciete. Thele; by their fkill in aftrology, perceiving that the ifland was foon to be dtowned with water, left their habitations, and male room for the Heliades, or grandions of Phocbus, who took poffeffion of the illand after that god had cleared it from the water and mud with which it was overwhelmed. Thefe Heliades, it feems, excelled all other men in learning, and efrecially in altrology; invented navigation, \&zc. In after ages, however, being infeited with great ferpents which bred in the ifland, they had recourle to an oracle in Delos, which adviled them to admit Phorbas, a Thefislian, with his followers, into Rhodes. This was accordingly done: and Phorbas having deftroyed the ferpents, was, after his death, honoured as a demigod. Afterwards a colony of Cretans fettled in fome part of the ifland, and a little befure the Trojan war, Tlepolemus the fon of Hercules, who was made king of the whole illand, and governed with great juftice and moderation.

After the Trojan war, all the ancient inhabitants Fint nide were driven out by the Dorians, who continu d to bebuartso miafters of the inand for many ages. The government was at firl monarchical ; but a little before the expedi-

## $\mathrm{R} H$ O $\left[\begin{array}{lll} & 3 & \boldsymbol{R}\end{array}\right] \quad \mathrm{H}$ O

Rholoc. tion of Xerxes into Greece, a republican form of government was introduced; during which the Rhodians applied themfelves to navigation, and became very powerful by lea, planling feveral colonies in diftant countries. In the time of the Peloponnefian war, the republic of R hodes was rent into two factions, one of which favoured the Athenians, and another the Spartans; but at length the latter prevailing, democracy was aboli.hed, and an arillocracy introduced. About 351 B. C. we find the Rhodians oppreffed by Maufolus king of Caria, and at laft reduced by Artemifia his widow. In this emergency, they applied to the Athenians, by whofe aflitiance, probably, they regained their liberty.

From this time to that of Alcxander the Great, the Rhodians enjoyed an uninterrupted tranquillity. To bim they voluntarily fubmitted; and were on that account highly favoured by him: but no fooner did they hear of his death, than they drove out the Macedonian garrifons, and once more became a free people. About this time happened a dreadful inundation at Rhodes; which, being accompanied with violent ftorms of rain, and hailitones of an extraordinary bignefs, beat down 6 many houfes, and killed great numbers of the inhabiViolent in- tants. As the city was built in the form of an amphiundation at theatre, and no care bad been taken to clear the pipes Khodes. and conduits which conveyed the water into the fea, the lower parts of the city were in an inftant laid under water, feveral houfes quite coverd, and the inhabitants drownel before they could get to the higher places. As the deluge increafed, and the violent thowers continued, fome of the inhabitants made to their fhips, and abandoned the place, while others miferably perithed in the waters. But while the city was thus threatened with utter deftruction, the wall on a fudden burft afunder, and the water difcharging itfelf by a violent current into the fea, unexpectedly delivered the inhabitants from all danger.

The Rhodians fuffered greatly by this unexpected accilent, but foon retrieved their loffes by a clofe application to trade. During the wars which took place among the fucceffors of Alexander, the Rhodians obferved a ftrict neutrality; by which means they enriched themfelves fo much, that Rhodes became one of the moft opulent ftates of that age ; infomuch that, for the common good of Greece, they undertook the piratic war, and, at their own charge, cleared the feas of the

Antigonus, charging them as aggreffors, and beanners R' les. of an unjuft war, threatened to befiege their civy whth the ftrength of his whole army. The Ihhodians cudeavoured by frequent embaffics to appeale bis wrath; but all their remonflances ferved rather to provoke that allay bis refentment: and the only terms upon which he would hearken to any accomroodation were, that the Rhodians ftould declare war againit Ptolemy, that they fhould admit his fleet into their harbour, and that an hundred of the chief citizens fhould be delivered up to him as hoftages for the performance of thele articles. The lehodians fent ambaffadors to all their allies, and to Ptoleny in particular, imploring their affitance, and reprefenting to the latter, that their attackment to his intereft had drawn upon them the danger to which they were expofed. The preparations on both fides were immenfe. As Antigonus was near fourlicore ycars of age at that time, he committed the whole management Rho in : of the war to his fon Demetrius, who appeared before Demetrute. the city of Rhodes with 200 hlips of war, 170 tranl: ports having on board 40,000 men, and 1020 other veffels laden with provifions and all forts of warlike engines. As Rhodes had enjoyed for many years a profound tranquillity, and been free from all devaftations, the expectation of booty, in the plunder of fo wealthy a city, allured multitudes of pirates and mercenaries to join Demetrius in this expedition; infomuch that the whole fea between the continent and the ifland was covered with fhips: which ftruck the Rhodians, who had a profpect of this mighty armament from the walls, with g:eat tcrror and confternation.

Demetrius, having landed his troops without the reach of the enemy's machines, detached feveral fmall bodies to lay wafte the country round the city, and cut down the trees and groves, employing the timber, and materials of the houles without the walls, to fortify his camp with firong ramparts and a triple palifade; which work, as many hands were employed, was finifled in a few days. The Rhodians, on their part, prepared for a vigorous defence. Many grcat commanders, who had fignalized themfelves on other occafions, threw themfelves into the city, being defirous to try their R ill in mintary affars againft Demetrius, who was reputed one defence. of the molt experienced captains in the conduct of fieges that antiquity had produced. The befieged began with difmiflung from the city all fuch perfons as were ufelefs; and then taking an account of thofe who were capable of bearing arms, they found that the citizens amounted to 6000 , and the forcigners to 1000 . Liberty was promifed to all the flaves who flould diftinguifh themfelves by any glorious action, and the public engaged to pay the maiters their full ranfom. A proclamation was likewife made, declaring, that whoever died in defence of their country thould be buried at the expence of the public ; that his parents and children flould be maintained out of the treafury ; that fortunes fliculd be given to his daughters; and his fons, when they were grown up, ihould be crowned and prefented with a corrplete fuit of armour at the great folemnity of Bacchus; which decree kindled an incredible ardour in all ranks of men.

Dcmetrius, having planted all his engines, began to Engines a batter with incredible fury the walls on the fade of the Demetrius harbour ; but was for eight days fucceflively repulfed bumit, by the befieged, who fet fire to molt of his warlike, ch.

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Rhodes. gines, and thereby obliged him to allow them fome refpite, which they made good ufe of in repairing the breaches, and building new walls where the old ones were either weak or low. When Demetrius had repaired his engines, he ordered a general affault to be made, and caufed his troops to advance with loud flouts, thinking by this means to ftrike terror into the enemy. But the befieged were fo far from being intimidated, that they sepulied the aggreffors with great flaughter, and performed the moft aftonifhing feats of bravery. Denietrius returned to the affault next day; but was in the fame manner forced to retire, after having loft a great number of men, and fome officers of diffinction. He had feized, at his firft landing, an eminence at a fmall diftance from the city; and, having fortified this advantageous poft, he caufed feveral batteries to be erected there, with engines, which inceffantly difcharged againft the walls fones of 150 pounds weight. The towers, being thus furioully battered night and day, began to totter, and feveral breaches were opened in the walls: but the Rhodians, unexpectedly fallying out, drove the enemy from their poft, overturned their machines, and made a moft dreadful havock; infomuch that fome of them retired on board their veffels, and were with difficulty prevailed upon to come afhore again.
Several def- Demetrius now ordered a fcalade by fea and land at perate af- the fame time; and fo employed the befieged, that fauts with they were at a lofs what place they fhould chiefly deout faccels.
on all fides, and the befieged defended themfelves with the greateft intrepidity. Such of the enemy as advanced firl were thrown down from the ladders, and miferably bruifed. Several of the chief officers, having mounted the walls to encourage the foldiers by their example, were there eitker killed or taken prifoners. After the combat had lafted many hours, with great flaughter on both fides, Demetrius, notwithifanding all his valour, thought it neceffary to retire, in order to repair his engines, and give his men fome days reft.

Demetrius being fenfible that he could not reduce the city till he was mafter of the port, after having refrefhed his men, he returned with new vigour againit the fortifications which defended the entry into the harbour. When he came within the caft of a dart, he caufed a vaft quantity of burning torches and firebrands to be thrown into the Rhodian fhips, which were riding there; and at the fame time galled, with dreadful fhowers of darts, arrows, and ftones, fuch as offered to extinguifh the flames. However, in fpite of their utmoft efforts, the Rhodians put a ftop to the fire ; and, having with great expedition manned three of their ftrongeft flips, drove with fuch violence againft the veffels on which the enemy's machines were planted, that they were fhattered in pieces, and the engines difmounted and thrown into the fea. Exceftus the Rhodian admiral, being encouraged by this fuccefs, attacked the enemy's fleet with his three fhips, and funk a great many veffels; but was himfelf at laft taken prifoner: the other two veffels made their efcape, and regained the port.

As unfortunate as this laft attack had proved to Demetrias, he determined to undertake another ; and, in order to fucceed in his attempt, he ordered a machine
of a new invention to be conftructed, which was thrice Rhodes. the height and breadth of thofe he had lately loft. When the work was finifhed, he caufed the engine to be placed near the port, which he was refolved, at all adventures, to force. But as it was upon the point of entering the harbour, a dreadful ftorm arifing, drove it againft the fhore, with the veffels on which it had been reared. The befieged, who wese attentive to improve all favourable conjunctures, while the tempet was ftill raging, made a fally againft thofe who defended the eminence mentioned above ; and, though repulfed feveral times, earried it at laft, obliging the Demetrians, to the number of 400 , to throw down their arms and fubmit. After this vietory gained by the Rhodians, there arrived to their aid 150 Gnoffians, and 500 men fent by Ptolemy from Egypt, moft of them being natives of Rhodes, who had ferved among the king's troops.
Demetrius being extremely mortified to fee all his Demetrius batteries againft the harbour rendered ineffectual, refol-frames a ved to employ them by land, in hopes of carrying the new maeity by affault, or at leart reducing it to the neceffity of $\mathrm{f}_{\text {bellepolise }}$ capitulating. With this view, having got together a vaft quantity of timber and other materials, he framed the famous engine called helepolis, which was by many degrees larger than any that had ever been invented before. Its bafis was fquare, each fide being in length near 50 cubits, and made up of fquare pieces of timber, bound together with plates of iron. In the middle part he placed thick planks, about a cubit diftance from each other; and on thefe the men were to ftand who forced the engine forward. The whole was moved upon eight ftrong and large wheels, whofe felloes were ftrengthened with frong iron plates. In order to facilitate and vary the movements of the helepolis, cafters were placed under it, whereby it was turned in an inftant to what fide the workmen and engineers pleafed. From each of the four angles a large pillar of wood was carried to about the height of 100 cubits, and inclining to eacls other; the whole machine confifting of nine fteries, whofe dimenfions gradually leffened in the afcent. The firf ftory was fupported by 43 beams, and the laft by no more than nine. Three fides of the machine were plated over with iron, to prevent its being damaged by the fire that might be thrown from the city. In the front of each flory were windows of the fame fize and fhape as the engines that were to be difcharged from thence. To each window were fhutters, to draw up for the defence of thofe who managed the machines, and to deaden the force of the ftones thrown by the enemy, the fhutters being covered with fkins fluffed with wool. Every flory was furnifhed with two large ftaircafes, that whatever was neceffary might be brought up by one, while others were going down by the other, and fo every thing may be difpatched without tumult or confufion. This huge machine was moved forwards by 3000 of the ftrongelt men of the whole army; but the art with which it was built greatly facilitated the motion. Demetrius caufed likewife to be made feveral tefludoes or pent-houfes, to cover his men while they advanced to fill up the trenches and ditches; and invented a new fort of galleries, through which thofe who were employed at the fiege might pafs and repals at their pleafure, without the leaft danger. He employed all his feamen in levelling the ground over which the machivies

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Rhodes. machines were to be brought up, to the fpace of four furlongs. The number of workmen who were employed on this occafion amounted to $3,, 000$.
13 In the mean time, the Rhodians, obferving thefe formidable preparations, were bufy in raifing a new wall within that which the enemy intended to batter with the helepolis. In order to accomplifh this work, they pulled down the wall which furrounded the theatre, fome neighbouring houfes, and even fome temples, after having folemnly promifed to build more magnificent ftructures in honour of the geds, if the city were preferved. At the fame time, they fent out nine of their beft fhips to feize fuch of the enemy's veffels as they could mect with, and thereby diffrefs them for want of provifions. As thefe flips were commanded by their bravelt fea-officers, they foon returned with an immenfe booty, and a great many prifoners. Among other veffels, they took a galley richly laden, on board of which they found a great variety of valuable furniture, and a royal robe, which Phila herfelf had wrought and fent as a prefent to her huffand Demetrius, accompanied with a letter written with her own hand. The Rhodians fent the furniture, the royal robe, and even the letter, to Ptolemy; which exafperated Demetrius to a great degree.

While Demetrius was preparing to attack the city, the Rhodians having affembled the people and magiftrates to confult about the meafures they fhould take, fome propofed in the affembly the pulling down of the fatues of Antigonus and his fon Demetrius, which till then had been held in the utmoft veneration. But this propolal was generally rejected with indignation, and their prudent conduct greatly allayed the wrath both of Antigonus and Demetrius. However, the latter continued to carry on the fiege with the utmof vigour, thinking it would reflect no fmall difhonour on him were he obliged to quit the plase without making himfelf mafter of it. He caufed the walls to be fecretly undermined: but, when they were ready to fall, a deferter very opportunely gave notice of the whole to the townfmen; who having, with all expedition, drawn a deep trench all along the wall, began to countermine, and, meeting the enemy under ground, obliged them to abandon the work. While both parties guarded the mines, one Athenagoras a Milefian, who had been fent to the affiftance of the Rhodians by Ptolemy with a body of mercenaries, promifed to betray the city to the Demetrians, and let them in through the mines in the night-time. But this was only in order to enfare them; for Alexander, a noble Macedonian, whom Demetrius, had fent with a choice body of troops to take poffeflion of a poft agreed on, no fooner appeared, but he was taken prifoner by the Rhodians, who were waiting for him under arms.Athenagoras was crowned by the fenate with a crown

Demetrius now gave over all thoughts of undermining the walls, and placed all his hopes of reducing the city in the battering engines which he had contrived. Having therefore levelled the ground under the walls he brought up his helepolis, with four tefludoes on each fide of it. Two other teftudoes of an extraordinary fize, bearing batterin $\bar{\kappa}$-rams, were likewife moved forwards by 1000 men. Each flory of the helepolis was gilled with all forts of engines for

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difcharging of ftones, arrows, and darts. When all things were ready, Demetrius ordered the fignal to be given; when his men, fetting up a fhout, allaulted the city on all fides both by fea and land. But, in the heat of the attack, when the walls were ready to fall by the reptated ftrokes of the battering-rams, ambaffidors arrived from Cnidus, earncflly foliciting Dcmetrius to furpend all further hoftilities, and at the fame time giving him hopes that they fhould prevail upon the Rhodians to fubmit to an bonourable capitulation. A fufpenfion of arms was accordingly agreed on, and ambafladors fent from both fides. But the Rhodians refufing to capitulate on the conditions of fered them, the attack was renewed with fo much fury, and the machines played off in fo brikk a manner, that a large tower built with fquare flones, and the wall that flanked it, were battered doun. The befieged, neverthelefs, fought in the breach with fo much courage and refolution, that the enemy, after various unfuccefsful attempts, were forced to abaudon the enterprife, and retire.

In this conjuncture, a fleet which Ptolemy had The befreighted with $3 \geqslant 0,000$ meafures of corn, and diffe-fieged rerent kinds of pulfe for the we of the Rhodians, ar- ceivealarge rived very feafonably in the port, notwithltanding the fupply of vigilance of the entiny's fhips, which cruized on the and feet the coafts of the ifland to furprile them. A few days enemy's after came in fafe two other fleets, one fent by Caf-engines on fander, with 100,000 buhhels of barley; the other fre. by Lyfimachus, with 400,000 bufhets of corn and as many of barley. This feafonable and plentiful fupply arriving when the city began to fuffer for want of provifions, inlpired the befieged with new courage, and raifed their drooping firits. Being thus animated, they formed a defign of fetting the enemy's engines on fire ; and with this view ordered a body of men to fally out the night enfuing, about the fecond watch, with torches and firebrands, having frift placed on the walls an incredible number of engines, to difcharge fones, arrows, darts, and fire-balls, againft thofe who fhould attempt to oppofe their detachment. The Rhodian troops, purfuant to their orders, all on a fudden fallied out, and advancing, in fpite of all oppofition, to the batteries, fet them on fire, while the engines from the walls ployed inceffantly on thofe who endeavoured to extinguifh the flames. The Demetrians on this occafion fell in great numbers, being incapable, in the darknefs of the night, either to fee the engines that continually difcharged fhowers of ftones and arrows upon them, or to join in one body and repulfe the enemy. The contlagration was fo great, that leveral plates of iron falling from the helepolis, that vaft engine would have been entirely confuined, had not the troops that were ftationed in it witb all poffible fpeed quenched the fire with water, before prepared, and ready in the apartments of the engine againft fuch accidents. Demetrius, fearing left all his machines fhould be confumed, called together, by found of trumpet, thofe whofe province it was to move them; and, by their help, brought them off before they were entirely delltroyed. When it was day, he commanded all the darts and arrows that had been thot by the Rhodians to be carefully gathe:ed, that he might from their number form fome judge. ment of the number of machines in the city. Above 820 firebrands were found on the fpot, and no fewer

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Rtoofes, than 1 joo darts, all difcharged in a very fmall portion of the night. This flruck the prince himfelf with no fmall terror; for he never imagined that they would have been able to bear the charges of fuch formidable preparations. However, after having caufed the llain to be buried, and given directions for the curing of the wounded, he applied himfelf to the repairing of his machines, which had been difmounted and rendered

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quite unferviceable.
In the mean time, the befieged, improving the refpite allowed them by the removal of the machines, built a third wall in the form of a crefcent, which took in all that part that was molf expofed to the enemy's batteries; and, befides, drew a deep trench behind the breach, to prevent the enemy from entering the city that way. At the fame time, they detached a fquadron of their beft flips, under the command of Amyntas, who made over to the continent of Afia; and there meeting with fome privateers who were commiffioned by Demetrius, took both the flips and the men, among whom were Timocies the chief of the pirates, and feveral other officers of diffinction belonging to the fleet of Demetrius. On their return, they fell in with feveral veffels laden with corn for the enemy's camp, which they likewife took, and brought into the port. Thefe were foon followed by a numerous flcet of fmall vefiels loaded with corn and provifions fent them by Ptolemy, together with 1500 men , commanded by Antigonus a Macedonian of great experience in military affairs. Demetrius, in the mean time, baving repaired his machines, brought them up anew to the walls: which he inceffantly battered till he opened a great breach and threw dorwn feveral towers. But when he came to the affault, the Rhodians, under the command of Aminias, defended themfelves with fuch refolution and intrepiditr, that he was in three fucceffive attacks repulfed with great flaughter, and at laf forced to retire. The Rhodians likewile, on this occafion, loft feveral officers; and amongft others, the brave Aminias their commander.

While the Rhodians were thus fignalizing themfelves in the deferce of their country, a fecond embafly arrived at the camp of Demetrius from Athens and the other cities of Greece, foliciting Demetrius to compoic matters, and Atrike up a peace with the Rbodians. At the requeft of the ambaffadors, who were in all above 50 , a ceffation of arms was agreed upon; but the terms offered by Demetiius being again rejected by the Fhodians, the ambaffadors returned home without bei. $\frac{\tau}{}$ able to bring the contending parties to an agreement. Hoffilities were therefore renewed; and Demetrius, whofe imagination was fertile in expedients for fucceeding in lis projects, formed a detachment of 1500 of his beft troops, under the conduct of Alcimus and Mancius, two officers of great refolution and experience, ordering them to enter the breach at midnight, and, forcing the entrencliment behind it, to poffefs themfelves of the pofts about the theatre, where it would be no difficult matter to maintain themfelves againft any efforts of the townfmen. In order to facilitate the execution of fo important and dangerous an undertaking, and amufe the enemy with falfe attacks, he at the fame time, upon a fignal given, ordered the reft of the army to fet up a fhout, and attack the city on all fides beth by fea and land. By this means
he hoped that, the befieged being alamed in all pacts, his detachment might find an opporiunity of forcing the entrenchments which covered the breach, and afterwards of feizing the advantageous poft about the theatre. This feint had all the fuccefs the prince could expect; for the troops having fet uo a thout from all quarters, as if they were advancing to a general affault, the detachment commanded by Alcimus and Mancius entered the breach, ard fell upon thofe who defended the ditch, and the wall that covered it, with fuch vigour, that, having flain the moft part of them and put the relt in confufion, they advanced to the theatre, and feized on the pof adjuining to it. This occafioned a general uproar in the city, as if it had been already taken: but the commanding officers difpatched orders to the foldiers on the ramparts not to quit their pofts, nor flir from their refpective flations. Having thus fecured the walls, they put themfelves at the head of a chofen body of their own troops, and of thofe who were lately come from Egypt, and with thefe charged the enemy's detachment. But the darknefs of the night prevented them from diflodging the enemy and regaining the advantageous pofts they had feized. Day, however, no fooner appeared, than they renewed their attack with wonderful bravery. The Demetrians without the walls, with loud fhouts endeavoured to animate thofe who had entered the place, and infpire thens with refolution to maintain their ground till they were relieved with frefh troops. The Rhodians being fenfible that their fortunes, liberties, and all that was dear to them in the world, lay at ftake, fought like men in the utmoft defpair, the enemy defending their pofts for feveral hours without giving ground in the leaf. At length the Rhodians, encouraging each other to exert themfelves in defence of their country, and animated by the example of their leaders, made a lrit effort, and, breaking into the very heart of the enemy's battalion, there killed both their commanders. After their death the reft were eafily put in diforder, and all to a man either killed or taken prifoners. The Fhodians likewife on this occafion loft many of their beft commanders; and among the reft Damotetis, their chief magiftrate, a man of extraordinary valour, who hąd fignalized himfelf during the whole time of the fiege.

Demetrius, not at all difcouraged by this check, was making the neceffary preparations for a new allault, when he received letters from his father Antigonus, enjoining him to conclude a peace with the Rhodians upon the beft terms he could get, left he fhould lofe his whole army in the fiege of a fingle town. From this time Demetrius wanted only fome plaufible pretence for breaking up the fiege. The Rhodians likewife were now more inclined to come to an agreement than formerly; Ptolemy having acquainted them that he intended to fend a great quantity of corn, and 3000 men to their affiftance, but that he would firit have them try whether they could make up matters with Demetrius upon reafonable terms. At the fame time ambafladors arrived from the Etolian republic, foliciting the contending parties to put an end to a war which might involve all the ealt in endlefs calamities.
comjuneture, did not a little enntribute towards the his ren-wifhed-for pacification. This prince was preparing to leels ufe-wifhed-for pacificaticn. Thic prince was preparing to ${ }_{l e}$ es. advance his helenolis agzinil the city, when a lihodian

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Rh-Ses. enciteer frund means to render it quite nfolefs. He undermined the tract of ground over which the helepolis was to pals the next day in order to approach the walls. Demetrius, not fufpecting any tratagem of this nature, cauled the:ingine to be moved forward, which coming to the place that was undemined, funk fo dcep into the ground that it was impolfinle to draw it out again. This misfortane, if we believe Vegetius and Víruvius, determined Demetrins to hearken to the Attolian ambaffadors, and at laft to ftrike up a peace upon the fullowing condations: That the republic of Rhodes fhould be maintained in the fell enjoyment of their ancient rights, privileges, and liberties, without any foreign garrifon; that they finould renew their arcient alliance with Antigonus, and aftift him in his wars agatiff all ftates and princes except Ptolemy hing of Egypt ; and that, for the effectual performance of the articles ftipulated between them, they fhould deliver 100 hoftages, fuch as Demetries fhould make choice of, except thofe who bore any publi= cmployment.

Thus was the fiege raifed, after it had continued a whole vear; and the Rhodians amply rewarded all thofe who had diftinguified themfelves in the fervice of their country. They allo fet up flatues to Ptolemy, Caffander, and Lyfimachus; to all of whom they paid the higheit honours, sipecially to the firl, whom they worflipped as a god. Demetrius at his departure prefented them with the belepolis, and all the other machines which he had employed in battering the city; from the fale of which, with fome additional fums of their own, they exected the famous coloffus. After this they applied themfeives entirely to trade and navigation; by which means they became quite mafters of the fea, and much more opulent than any of the neighbouring nations. As far as lay in their power, they endeavoared to preferve a neutrality with regard to the jarring nations of the eatt. However, they could not avoid a war with the Byzantines, the occafion of which was as follows: The Byzantines being obliged to pay a yearly tribute of 80 talents to the Gauls, in order to raife this fum, they came to a refolution of laying a toll on all Mips that traded to the Pontic fea. This refolution provoked the Rhodians, who were a trading nation, above all the ref. For this reafon they immeaiately difpatched ambaffadors to the Byzantines, complaining of the new tax; but as the Byzantines had no other method of fatisfying the Gauls, they perfifed in their refolution. 'T'w: Rhodians now declared war, and prevailed upon Prufias king of Bithynia, and Attalus king of Pergamus, to affift them; by which confederacy the Byzantines were fo intimidated, that they agreed to exact no toll from hiips trading to the Pontic fea, the demand which had been the occafion of

About this time happened a dreadful earthquake, which threw down the coloffus, the arfenal, and great part of the city-walls of ithodes; which calamity the Rhodians improved to their advantage, fending ambaf. fatiors to all the Grecian princes and flates, to whom their loffes were fo much exaggerated, that their countrymen obtained immenfo fums of money under pretence of repairing them. Fiero king of Syracufe prefented them with 100 talents; and, befides, exempted from all tolls and duties fuch as traded to Rhodes. Ptolemy king of Egypt gave them 100 talents, a million of mea-
fures of wheat, materials for building 20 quinquerenies and the like number of tritemes; and, befides, fent then 100 archiceets, 300 workmen, and materials for repairing their public buildings, to a great valuc, paying them moreover 14 talcuts a-jear for the maintc. nance of the workmen whom he lent them. Antigonus gave them $1=0$ talents of filver, with 10,000 picces, of timber, each piece being 15 cubiss long ; 7000 planks; 3000 pounds of iton, as many of pitch and rofin, and 1000 meafures of tar. Chryfeis, a woman of diftinction, fent them 100,000 meafures of wheat, and 3000 pour is of lead. Antiochus exen:pted from all taxes and duties the Rhodian fhips trading to his dominions ; prolented them with 10 galleys, and 200,000 meafures of com, with many other things of great value. Prufas, Mithridates, and all the princes then reigning in Afia, made them proportionable prefents: in thort, all the Greck towns and nations, all the princes of Europe and Afin, contributed, according to their ability, to the relief of the Rhodians on that occafon ; indomuch that their city not only foon arofe from its ruins, but attained to an higher pitch of fplendour than ever.

In the year 203 B. C. the Rhodians engaged in a war wist war with Philip of Macedon. This monarch had inva- Philip of ded the territories of Attalus king of Pergamua; and Macedo: becaufe the Phodians feemed to favour their ancient friend, fent one Heraclides, by birth a Tarentine, to fet fire to their fleet; at the fame time that lie difpatched ambaffadors into Crete, in order to ftir up the Cretans againft the Rhodians, and prevent them from fending any affilance to Attalus. Upon this war was immediately proclaimed. Plilip at firft gained an inconfiderable advantage in a naval engagement; but the next year was defeated with the lofs of $11,000 \mathrm{men}$, while the Rhodians loft but 60 men and Attalus 70 , After this he carefully avoiced coming to an engagement at fea either with Attalus or the Rhodians. The combined fleet, in the mean time, failed towards the. illand of Agina in hopes of intercepting him: hut having failed in their purpofe, they failed to Athens, where they concluded a treaty with that people; and, on their return, drew all the Cyclades into a confederacy againft Philip. But while the allies were thus wafting their time in negociations, Philip, having divided his forces into two bodies, fent one, under the command of Philocles, to ravage the Athenian territories; and put the other aboard lis fleet, with orders to fail to Meronea, a city on the north fide of 'Thrace. He then marched towards that city himfelf with a body of forces, took it by affault, and reduced a great many others; fo that the confederates would, in all probability, have had litt?e reafon to boalt of their fuc- The Rho cefs, had not the fomans come to their affiltance, by dane alfitwhofe help the war was foon terminated to their ad- ed by the vantage. In the war which took place between the Romans and Antiochus the Great king of Syria, the Rhodians were very ufeful allies to the former. The beft part of their fleet was indeed deftroyed by a treacherous contrivance of Polyxeniales thie Syrian admiral ; but they foon fitted out another, and defeated? Syrian fquadron commanded by the celebrated Hannibal, the Carthaginian commander; after which, in conjunction with the liomans, they ntterly defcated the whole Syrian feet commanded by Polyycuiades ; which, toyelhe:

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together with the lofs of the battle of Magneifia, fo difirited Antiochus, that he fubmitted to whatever conditions the Romans pleafed.

For thefe fervices the Rhodians were rewarded with the provinces of Lycia and Caria; but tyrannizing over the people in a terrible manner, the Lycians applied to the Romans for protection. This was readily granted ; but the Rhodians were fo much difpleafed with their interfering in this matter, that they fecretly favoured Perfes in the war which broke out between him and the Roman republic. For this offence the two provinces above-mentioned were taken from them; but the Rhodians, having banifhed or put to death thofe who had favoured Perfes, were again admitted into favour, and greatly honoured by the fenate. In the Mi. thridatic war, their alliance with Rome brought upon them the king of Pontus with all his force; but having loft the greateft part of his fleet before the city, he was obliged to raife the fiege without performing any remarkable exploit. In the war which Pompey made on the Cilician pirates, the Rhodians affifted him with all their naval force, and had a great fhare in the victories which he gained. In the civil war between Cæfar and Pompey, they affifted the latter with a very numerous fleet. After his death they fided with Cæfar ; which drew upon them the refentment of Caffius, who advanced to the ifland of Rhodes with a powerful fleet, after having reduced the greateft part of the continent. The Rhodians, tervified at his approach, fent ambaffadors intreating him to make up matters in an amicable manner, and promifing to ftand neuter, and recal the flips which they had fent to the affiftance of the triumviri. Caffius infifted upon their delivering up their fleet to him, and putting him in poffeffion both of their harbour and city. This demand the Rhodians would by no means comply with, and therefore began to put themfelves in a condition to ftand a fiege; but firft fent Archelaus, who had taught Caffius the Greek tongue while he ftudied at Rhodes, to intercede with his difciple in their behalf. Archelaus could not, with all his authority, prevail upon him to moderate his demands; wherefore the Rhodians, having created one Alexander, a bold and enterprifing man, their pretor or prytanis, equipped a fleet of 33 fail, and fent it out under the command of Mnafeus. an experienced fea-officer, to offer Caffius battle. Both fleets fought with incredible bravery, and the victory was long doubtful : but the Rhodians, being at length overpowered by numbers, were forced to return with their fleet to Rhodes; two of their thips being funk, and the reft very much damaged by the heavy thips of the Romans. This was the firft time, as our author obferves, that the Rhodians were fairly overcome in a fea-fight.

Caffus, who had beheld this fight from a neighbouring hill, having refitted his fleet, which had been no lefs damaged than that of the Rhodians, repaired to Loryma, a itronghold on the continent belonging to the Rhodians. This caftle he took by affault; and from hence conveyed his land-forces, under the conduct of Fannius and Lentuius, over into the ifland. His fleet confifted of 80 flitips of war and above 200 tranfports. The Rhodians no fooner faw this mighty fleet appear, but they went out again to meet the enemy. The fecond engagement was far more bloody than the firf ; many flips werc funk, and great numbers of nien kill-
ed on both fides. Bat victory anevv declared for the Rhodee. Romans; who immediately blocked up the city of Rhodes both by fea and land. As the Rhodians had not lad time to furnifh the city with fufficient fore of provifions, fome of the inhabitants, fearing that if it were taken either by affault or by famine, Caffius would put all the inhabitants to the fword, as Brutus had lately done at Xanthus, privately opened the gate to him, and put him in poffefion of the town, which he neverthelefs treated as if it had been taken by affault. pill cruelly He commanded 50 of the chief citizens, who were fuf- the city. pected to favcur the adverfe party, to be brought before him, and fentenced them all to die; others, to the number of 25 , who had commanded the fleet or army, becaufe they did not appear when fummoned, he profcribed. Having thus punifhed fuch as had either acted or fpoken againft him or his party, he commanded the Rhodians to deliver up to him all their fhips, and whatever money they had in the public treafury. He then plundered the temples; fripping them of all their valuable furniture, veffels, and flatues. He is faid not to have left one fatue in the whole city, except that of the fun; bragging, at his departure, that he had ftripped the Rhodians of all they had, leaving them nothing but the fun. As to private perfons, he commanded them, under fevere penalties, to bring to him all the gold and filver they had, promifing, by a public crier, a tenth part to fuch as hould difoover any hidden treafures. The Rhodians at firft concealed fome part of their wealth, imagining that Caffius intended by this proclamation only to terrify them; but when they found he was in earneft, and faw feveral wealthy citizens put to death for concealing only a fmall portion of their riches, they defired that the time prefixed for the bringing in their gold and filver maight be prolonged. Caffius willingly granted them their requeff ; and then through fear they dug up what they had hid under ground, and laid at his feet all they were worth in the world. By this means he extorted from private perfons above 8000 talents. He then fined the city in 500 more; and leaving L. Varus there with a flrong garrifon to exact the fine without any abatement, he returned to the continent.

After the death of Caflius, Marc Antony reftored the Rhodians to their ancient rights and pivileges; beftowing upon them the iflands of Andros, Naxos, Tenos, and the city of Myndus. But thefe the Rhodians fo opprefled and loaded with taxes, that the fame Antony, though a great friend to the Rhodian republic, was obliged to diveft her of the fovereignty over thofe places, which he had a little before fo liberally beftowed upon her. From this time to the reign of the empe-or Claudius we find no mention made of the Rhodians. That prince, as Dion informs us, deprived them of their liberty for having crucified fome Roman citizens. However, he foon reftored them to their former condition, as we read in Suetonius and Tacitus. The latter adds, that they had been as often deprived of, as reftored to, their liberty, by way of punifhment or reward for their different behavicur, as they had obliged the Romans with their affiftance in forcign wars, or provoked them witb their feditions at home. Pliny, Rhedes reor provoked them witt their feditions at home. Pliny, duced to a
who wrote in the beginning of Vefpafian's reign, fyles Roman Rhodes a beoutiful and free tozen. But this liberty they province by did not long enjoy, the ifland became foon after reduced Veipafian.

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Rboles by the faia = Ve pafian to a Moman provinan, and obliged to pay a s, y ly tribute to their new malss. This province was called the pmovince of the ema's. Tie looman pretor who governed it relided at Rhodes, as the chief city under his juridiction; a.d Rome, notwith. flanding the eminent lurvices rendered her by this republic, thenceforth trented the Rholians not as allies, but vilals.

The iffend of Rhodes continued fubject to the Romans till the reign of the emperor Andronicus; when Villare', grand-malter of the knights of Jerufalem, then setiding in Cyprus, finding himfelf much expoled to the atticks of the Saracens in that illand, refolved to exclange it for that of Rhodcs. This ifland too was almofl entirely occupied by the Sartcens; Andronicus the eatlern emperor poffefing little more in it than a caflle. Neverhelefs he refufed to grant the inveliture of the itland to Villaret. The latter, without fpending time in fruitlefs neg.xiations, filed directly for Rhodes, where he landed his troops, provitions, and warlike ftores, in lpite of the oppolition made by the Saracens, who then united againit the common enemy. As Vilaret forefaw that the capital mutt be t. key before he could reduce the illand, he intantly lad fiege to it. The inhabitants defended themitives obtlinately, upon which the grandmafter thought proper to turn the fiege into a blockade; but he foum found himbelf fo cloiely furrounded by the Greeks and Saracens, that he could - 5 no fupply either of forage or provifions for his
$3^{3}$
He cunquers the Saracens, and reduces the ifland.
army. But having at length obtained a fupply of provilions by means of large fums borrowed of the Florentines, he came out of his trenches and attacked the Saracens, with a full refolution either to conquer or die. A bloody fight enfued, in which a great number of the bravelt knights were killed: but at length the Saracens gave way, and tled to their dhips; upon which the city was immediately affulted and taken. The Greeks and other Chritians had their lives and liberties given them, bat the Saracens ware all cut to pieces. The reduction of the capital was followed by that of $2!1$ the other placus of inferior ftrength throughout the illind; and in four vears afier their landing, the whole was fubjugated, and the coinquerors took the title of the Knights of Rhodes. For many years thofe knights continued the terror of the Siracens and Turks, and futained a fevere fiege from Mohammed II. who was compelled to abandon the enterprife; but at length the Turkifh fultan Sodyman refolved at all events to drive them from it. Before he undertook the expedition, he fent a meffige cummanding them to depart from the illand without delay; in which cafe he promifed that neither they nor the inhabitanls thould fuffer any injury, but threatened them with his utmoft vengeance if they refufed his officr. The knights, Fowerer, proving obftinate, Solyman attacked the city wit. a dicet of 400 fail and an ariny of 140,000 men.

The trencl is were foon brought clofe to the counterfcarp, and a frong battery raifed againt the to -n , which, however, did but little dar- ge, till the fit n bsing informed by a fpy of this particular, and that he was in dangar of receiving fome f al fhit from the tower of St John which overlosked his c a p, le pl.anted a battery againft that tower, and eq ickly brouglit it duwn. Solyman, however, finding the whole place in TTe meafure covered wi h foovg frifications of foch * on XVIII. Pat. I.
height as to command all his betteries, ordeced wan amenife quantity of flones and earth to be trous ht ; in which is great a number of hands were em loyed isis!t. and diy by turns, that they quickly raifed a couple of hlloc. shigh enough to overtop the city-y.als. Ith. plied them accordingly with fuch a continoal li.e, thet the grandmafter was obfiged to cavfe them to be tir I gly propped within with earth and timber. An this while the befieged, who, from the top of the grandmatter's palace, could difcover how their batte iss wire planted, demolithed them with their canon almoft as fait as they raifed them.

Here the enemy thought proper to alter their meaf res, $\mathrm{Te}^{34} \mathrm{~B}^{34}$ and to plant a throng battery againt the tower of Si 'attered. Nicholas, which, in the former fiege by Mohan on-d, hod refifted all the effurts of the then grand-vizier. Whi; the bathaw of Romania caufed to be bs tered with 12 large pieces of brafs canmon, but had the mortification to fee them all difnounted by thole of the towor: to prevent which in future, he ordered them to be fired only in the right, and in the day had them covered with gabions and earth. This had fich fuccefs, that, akier 5000 can-non-fhot, the wall began to thake and tumble into the ditch ; but he was furprifed to find , nother wall behind it, well terraced, and bordered with artillery, and himfelf obliged eicher to begin afrefh or give up the enterprife: and yet this laft was what solyman preferred, when be was :old of its being built on a hard rock; incapable of heing fipped, and how firmly it had held out againt all the enorts of M hammed's vizier. The next attack was therefore ondered by bim to be made againit the baftions of the town, and that with a valt number of the largeft artillery, which contivel 1 firing during a whole month; fo that the new wall of the baftion of England was quite demolished, though the old one flood proof againtt all their thot. That of Italy, which wa, battered by 17 large pieces of cannon, was ftill worfe damaged; upon which Marlinengo the engineer advifed the grand-mafter to caufe a fally to be made on the trenches of the enemy out of the breach, whilf he was making frefh entrenchments behind it. His advice fucceeded: and the 200 men who fallied out frord in hard having furprifed the Turks in the trench, cut moft of them in pieces. At the fame time a new detachment, which tras le t to reptilfe them, being obliged, as that engineer rightly j: dgud, to $\mathrm{pt} \sqrt{s}$ by a fpot which lay open to Leir artillery, nere likenife moftly deftroyed by the continual fire that came fiom it, whill the affailants were employed in filling up feveral fathoms of the trench before they retired. By that time the breach had been repaired with fuch new works, that all the efforts to mount it by affault proved equally ineffectual and deftructive.

Uriortulately for the befieged, the contizual fire they The ${ }^{33}$. lv d de cadicd fuch a confumption of their pos der, nid war: that they be in to feel the want of it; the perfid:ous d'I marald, wh ofe province it lad been to vifit the magazmes of it, having amufe ! the council with a falle report, that there mor mor than fillicient to m an e to m. .ftain the tiege, thourh it fh uld litt a whole twelvemonth. But here the rrond mal er found means to fupply in fome meal are that une neefed defcet, by the csutious provifion he had $m$ Je $f$ a large quantity of faltpetre, which was inimedi te'y ound and $m$ de into gunpowder, though ke nas at the fame time obliged to ordes the engineers prwd 3. but find mears to

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Rhike to be more fparing of it for the future, and to make ufe of it onily in the defence of fuch breaches as the enemy ftould make.

All this while the Turks had not gained an inch of ground; and the breaches they had raade were fo fuddenly either repaired or defended by new entrenchments, that the very rabbifh of them mutt be mounted by adfalt. Solyman, therefore, thought it now advifable to fet his numerous pioneers at work, in five different parts, in digying of mines, each of which led to the battion oppofite to it. Some of thefe were countermined by a new invented method of Martinengo; who, by the help of braced 象ins, or diums, could difcover where the miners were at work. Some of thefe he perceived, which he cauled to be opened, and the miners to be driven out by hand grenadoes; others to be fmothered, or burned, ty fetting fire to gunpowder. Yet did not this binder two confiderable oncs to te fprung, which did a valt deal of damage to the baftion of England, by throwing down about fix fathoms of the wall, and filling up the ditch with its rubbih: whereupon the Turks immediately climbed up fword in hand to the top of it, and planted itven of their Ifandards upon the parapet; but being ftopped by a traverfe, the knights, recovering from their furprife fell upon them with fuch fury, that they were obliged to abandon it with great lofs. The grand mafter, who was then at church, quickly came to the place with his flort pike in his hand, attended by his knights, encouraging all he met with, burghers, foldiers, and others, to fight bravely in defence of their religion and country, and arrived time enough to alfitt in taking down their fandards, and driving down the enemy by the way they came up. In vain did the vizier Muftapha endeavour to prevent their tlight by killing fome of the foremoft with his fword, and driving the relt back; they were obliged to abandon the baftion, and, which was flill worfe, met with that death in their fight, which they had flrove to fhun from the fire arms which were difcharged upon them from the ramparts. Three fangiacs loit their lives in this attack, befides fome thoufands of the Turks; the grand. nafter, on his fide, loft fome of his braveft knights, particularly his itandard-bearcr.

The attacks were almott daily renewed with the fame ill fuccefs and lofs of men, every general itriving to fignalize himfelf in the fight of their emperor. At length the old general Peri, or Pyrrus, having harafied the troops which guarded the baftion of Italy for feveral days Kucceflively without intermiffion, caufed a ftrong detachment, which he had kept concealed behind a cavalier, to mount the place by break of day, on the 13 th of September; where, finding them overcome with fleep and fatigue, they cut the throats of the fentinels, and, fliding through the breach, were juft going to fall upon them. The Italians, however, quickly recovered themfelves and their arms, and gave them an obftinate repulfe. The conteft was fierce and bloody on both fides; and the baThaw, ftill fupplying his own with new reinforcemeats, would hardly have failed of overpowering the other, had had not the grand mafter, whom the alarm had quickly reached, timely intervened, and, by his piefence, as well as example, revived his Rhodians, and thrown a fudden panic among the enemy. Pyraus, defirous to do Something to wipe off the difgrace of this repulie, tried nis fortune next on an adjoining work, lately raifed by the grand-maiter Carettii : but here his foldiers met with
grand-mafter eafily underflood their defign, and that the baftions of England and Spain, the polt of Provence, and terrace of Italy, were pitched upon for the allault, and took his precautions accordingly.

The morning was no fooncr come, than each party
a thill worfe treatment, being almof overwhelmed with the band-grenadoes, melted pitch, and boiling oil, which came pouring upon them, whilit the forces which were on the adjacent flanks made as great a flaughter of thofe tiast Hed ; iufomuch that the janilaries began to refume their old murmuring tone, and cry out that they were brought thither only to be flaughtered.

The grand vizier Muttapha, afraid lelt their complaints fiould reach his mafter, agreed at length, as the lait refort, to make a freih attempt on the battion of England, whilit, to caufe a diverfion, the baftaw Achmed forung
fome freih mines at an oppofite part of the city. This whilh, to caufe a diverfion, the baftaw Achmed fprung
fome frefh mines at an oppofite part of the city. This was accordingly executed on the izth of September; when the former, at the head of five battalions, refolutely mounted or rather crept up the breacb, and, in fite
of the fire of the Englinh, advanced fo far as to pitch ly mounted or rather crept up the breacb, and, in fite
of the fire of the Eiglinh, advanced fo far as to pitch fome fandards on the top; when, on a fudden, a crowd of Englifh knights, commanded by one Bouk, or Burk,
fallied out of their entrenchments, and, affitted by fome of Englifh knights, commanded by one Bouk, or Burk,
fallied out of their entrenchments, and, affilted by fome other ofticers of dittinction, obliged them to retire, though in good order. Muitapha, provoked at it, led them back, in good order. Muftapha, provoked at it, led them back, his men fupported him as they ought, the place muit have been yielded to him: but the fire which was made from the adjacent batteries and mufketiy difconcerted
them to fuch a degree, that neither threats nor entreaties from the adjacent batteries and mufketry difconcerted
them to fuch a degree, that neither threats nor entreaties could prevent their abandoning the enterprife, and dragging him away with tbem by main force. The Fhodians ging him away with tbem by main force. The Rhodians
loft in that action Ceveral brave knights, both Engliili and German ; and, in paricular, John Burk, their valiant comnander: but the Turks loft above 3000 men, befides many officers of difinction. Much the fame ill fuccefs having a:tended Achmed with his miner, one of which had been opened, and the other only bringing fome fathoms of the wall down, be was alfo obliged to retreat;
his troops, though fome of the very belt, being forced to fathoms of the wall down, be was allo obliged to retreat;
his troops, though fome of the very belt, being forced to difperfe themfelves, after hasing borne the fire and fury of the Spanifh and Auvergnian knights as long as they were able.

By this time Solyman, aflamined and exafperated at
his ill furceefs, called a general council ; in which be made fome ftinging reflections on his vizier, for having reprefented the reduction of Rhodes as a very ealy enterprife. To avoid the effects of the fultan's refentment, the fubtle Muftapha declared, that hitherto they had fought the enemy as it were upon equal terms, as if they had been afrad of taking an ungenerous advantage of their fuperionity, by which, faid he, we have tage of their fupenonty, by which, fald he, we bave
given ther an opportunity of oppofing us with their united force wherever we attacked them. But let us now refolve upon a gencral aftault on feveral fides of the town; and fee what a poor ciefence their ftrength, thus divided, will be able to make againft our united
force. The advice was immediately approved by all, thus divided, will be able to make againft our united
force. The advice was immediately approved by all, and the time appointed for the execution of it was on and the time appointed for the execulion of it was on the $24^{\text {th }}$ of that month; and every thing was ordered 37
to be got ready againtt that day. Accordingly the An affau to be got rcady againtt that day. Accordingly the An anauls having fuffered a continual fire for fome time from their terent having fuffered a continual firc for fome time from their piaces at artillery in order to widen the breaches; by which the once.
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Funded mounted their refpetive breach with an undaunted bra-very; the young fulton, to animate them the more, hating ordered his throne to be reared on an eminence, whence he could fee all that was done. The Khodians, on the ether hand, were no left diligent in repulsing then with their cannon and other fire-arms, with their melted lead, boiling oil, lint pots, and other ufual expedients. The one fide accent the foaling ladders, fearTels of all that: opposed them; the other overturn their ladders and fend them tumbling down headlong in: to the ditches, whore they were overwhelmed with frons, or difpatched with darts and other miffile weapons. The baton of England proves the ferne of the greater daughter and bloodshed; and the grand-mafter makes that his polit of honour, ana, by his pretence and esample, infpires his men with fresh rigour and bravery, whit the continual thunder of his artillery makes fuch horrid work among the aflailants as chills all their coupsage, and forces there to give way: the lieutenant-general, who commands the stack, leads them back with frefh vigour, and mounts the breach at the head of all; immediately after comes a cannon-ball from the Spanish baftion, which overturns him dead into the ditch. This difafter, instead of fear and dread, fills them with a furious defire of revenging his death : but all their obitnay cannot make the Rhodians go ene the back, whilst the priefts, monks, young men and old, and even women of every rank and age, affine them with an uncommon ardour and firmnefs; forme in overwhelming the enemy with tones; others in deftroying them with melted lead, fulphur, and other combultibles; and a third fort in fopplying the combatants with bread, wine, and other refreftments.

The affault was no leis defperate and bloody on the Laftion of Spain, where the knights, who guarded it, not expecting to be fo foo attacked, and aflame to flan idle, were affiliating the barton of Italy; which gave the Turks an opportunity to mount the breach, and penetrate as far as their intrenchments, where they planted no left than 30 of their ftandards on them. The graad-mafter was quickly apprifed of it, and orcered the bation of Auvergne to play against them ; which was done with foch diligence, and foch continual fire, whilit the Rhodian enter the baftion by the help of their cafemates. and, ford in hand, fall upon them with entail furs, that the Turks, alike beet by the fire of the arthlery and the arms of the Rhodian knights, were forced to abandon the place with a confiderable lofs. The aga with great bravery rallies them afreth, a $n d$ brings them back, by which time the grand-mafter likewife appeared. The fight was renewed with greater fiercencfs; and foch flaughter was made on both fides, that the grand-mafter was obliged to draw 200 men out of St Nicholas tower to his affizance : there were commanded by forme Roman knights, who led them on with fuck 'peed and bravery, that their very appearance on the baffin made the janiffaries draw back: which Solyman obferving from his eminence, faufed a retreat to be founded, to conceal the difgrace of their flight. In there attacks there fell about 15,000 of his heft troops, befides feveral officers of diftinction. The loft of the befieged was no left considerable, if we judge from the fall number of their forces; but the greatelt of all to them was that of forme of their bravely and moot diftinguifhed knights and commanders, many of whom were killed, and farce any efcaped unwound-
ed. But the moot dreadful fate of all had like to have Rhode fallen on the favourite vizier Muftapha, who had propored this general affault : the ill fuccels of which had fo enraged the proud fultan, that he condemned him to be foot with arrows at the head of his army; which dreadful fentence was jut ready to be executed, when the old bathaw, by his intreaties, obtained a fulpenfion of it, in hopes that, when his fury was abated, he should alto obtain lis pardon.

Solyman, however, was fo difcouraged by his ill fieceffes, that he was or the point of railing the fiege, and would have actually done $\{0$, had he not been diverted from it by the advice which he received from an Albanisan deferter, forme fay by a letter from the traitor d' Amarald, that the far greater part of the knights were either killed or wounded, and thole that remained altogether incapable of fuftaining a freth affault. This having determined him to try his fortune once more, the command of his forces was turned over to the balhaw Achined ; and, to flow that he defigned not to fir till he was matter of the place, he ordered a houfe to be built on the adjacent mount Philermo for his winterquarters. Ached marched directly againft the bastion of Spain, which had fuffered the molt; where, before he could open the trenches, his men fell thick and threefold by the comment fire both of fall and great guns from the baftion of Auvergne. He loft fill a much greater number in rearing a rampart of earth to cover the attack, and give him an opportunity of fapping the wall ; and, as foo as he fare a large piece fall, ordered his men to mount the breach. They were no fooner come to the top, than they found a new work and entrenchments which Martinengo had reared; and there they were weIcored with fuch a brig fire from the artillery, that they were glad to recover their trenches with the utmoll precipitation, after having loft the much greater part of their men. The attack was renewed, and a reciprocal fie continued with great obstinacy, till a mulket-fhot deprived that indefatigable engineer of one of his eyes, and the order of his afliduous Cervices for forme time. The grand-mafter, having ordered him to be carried to his palace, took his place, and kept it till he was quite cured, which was not till 34 days after; and continued all the time in the entrenchments with his handful of knights, fcarcely allowing himfelf reft night or day, and ever ready to expole himself to the greatest dangers, with an ardour more becoming a junior officer than an old worn -out hovereign; which made his knights more lavilh of their own lives than their paucity and present circumfances could well admit of.

Soon after this, the treafon of d'Arnarald was diffcovered, and he was condemned to death and executed; but by this time the city was reduced to the lat extremity. The pope, emperor, and other crowned leads, had been long and often importuned by the grand rafter for speedy affiffance, without fuccefs ; and, as an addition to all the other difafters, thole fuccours whish were font to him from France and England periled at fa. The new supply which he had font for of provifrons from Candia had the fame ill fate; fo that the winds, fees, and every thing, feemed combined to bring on the destruction of that city and order. The only reforce which could be thought of, under fo dismal a iituation, was, to fend for the few remaining knights and forces which sere left to guard the other inauds, to come to the defence of their capital, in hopes that, if

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 they could fave this, the others might in time be recovered, in cafe the Turks floould feize upon them. On the other hand, Solyman, grown impatient at the fmall ground his general had gained, gave him exprefs orders to renew the attack with all imaginable fpeed and vigour, before the fuccours which he apprehended were coming from Europe, obliged him to raife the fiege. Achmed inflantly obeyed, raifed a battery of 17 large cannon againf the baftion of Italy, and quickly after made himfelf mafter of $i t$, obliging the garrifon to retire farther into the city. Here the grand-mafter was forced to demolifh two of the churches, to picvent the enemy's feizing on them; and, with their materials, cauled fome new works and entrenchments to be madc to hinder their proceeding farther.The Turks, however, gained ground every day, though they ftill loft valf numbers of their men; at length the 3 oth of November came, when the grandmailer, and both the befiegers and befieged, thought the laft affault was to be given. The balhaw Pyrrus, who comntanded it, led his men directly to the entrenchments; upon which the bells of all the churches founded the alarm. The grand-matter, and his few knights, troops, and citizens, ran in crowds, and in a confufed diforderly manner, to the entrenchinents, each fighting in his uwn way, or rather as his fear directed him. This attack would have proved one of the moft defperate that had yet been felt, had not a moll vehement rain intervened, which carried away all the earth which the enemy had reared to ferve them as a rampart againt the artillery of the battion of Auvergne; fo that being now quite expofed to their continual fire, they fell in fuch great numbers, that the bathaw could no longer make them ftand their ground, but all precipitately fled towards their camp. This laft repulfe threw the proud fultan into fuch a fury, that none of his officers dared to conie near $\lim$; ard the fhame of his having now fpent near fix whole nonths with fuch a numeious anmy before the place, and having loft fuch myriads of his brave troops with fo little advantage, had made him quite defperate, and they all dreaded the confegliences of his refentment.

Pyrrus at length, havit g given it time to cool, ventured to approach him, and propofe a new project to him, which, if approved, could hardly fail of fuccefs; which was, to offer the tomn a generous capitulation; and he obferved, that in cafe the tiubborn knights fhould rejeck it, yet being now reduced to fo fmall a number, as wcll as their forces and furtifications almoft deftroyed, tle citizens, who were moft of them Greeks, and lefs ambiti as of glory than folicious for their own preeervation, would undoubiedly accept of any compoftion that showld fe ure to them linir if $c$ ated effeets.

This probofal being rekilied oy the filt $n$, letters were im ediately difperfed anout the city in his name, exhorling them to fubmit to his gov emm it, a d threatering them at the fame time with the mon cheadful effects of his refen ment if thy perfifed in thicir obettinacy. Pyrrus I'kewife difpatthed a Gencefe to approach as near as he could to the bafticn of Auvergne, and to intrest the knigits to the p'ty of to many of their Chrition bretliten, ard, nte expofe them to tle dreadful effect which ni.fo folluw their refufal of a capitulution, fo generoul'y offert.! them at their lant extremity. Oile: a ent were likewife employed in other places: to all of whom the grand-mafter ordered fome
of his men to relurn this anfwer, That his order never Rhodes treated with infidels but with Fword in band. An Albanian was fent next with a letter from the fultan to him, who neet with the fame repulfe; after which, he ordered his men to firs upon any that dhould prefent themfelves upon the fame pretences; which was actually done. But this did not prevent the Rhodians from liftening to the terms offered by the Turks, and holding frequent cabals upon that fubject ; in which the general maifacre of a town taken by alfault, the dreadful flavery of thofe that efcaped, the rape of their wives and daughters, the deftruction of their churches, the profanation of their holy relics and facred utenfils, and other dire confequences of an obftinate refufal, being duly weighed againt the fultan's offers, quickly determined their choice. The grand-mafter, however, proving inexorable to all their intreaties, they applied to their Greek metropolitan, who readily went and reprefented all thefe things to lim in the molt pathetic terms: Yet he met with no better reception; but was told that he and his knights were determined to be buried under the ruins of the city if their fwords could no longer defend it, and he hoped their example would not permit them to fhow lefs courage on that occafion. This anfwer produced a quite contrary effect; and, as the citizens thought delays dangerous at fuch a juncture, they came in a body to him by the very next morning, and plainly told him, that if he paid no greater regard to their prefervation, they would not fail of taking the mof proper meafures to preferve the lives and chaffity of their wives and children.

This refolution could not but greatly alarm the grand-mafter ; who thereupon called a council of all the knights, and informed them himfelf of the condition of the place. Thefe all agreed, particularly the engineer Martinengo, that it was no lunger defenfible, and no other rcfource left but to accept the fultan's offers; adding, at the fame time, that though they were all ready, according to the obligations of their order, to fight to the laft diop of their blood, yet it was no lefs their duty to provide for the fafety of the inbabitants, who, not being bound by the fame obligations, oughty not to be made a facrifice to their glory. It was therefore agreed, with the grand-mafter's confent, to accept of the next offers the fultan fhould make. He did not let thens wait long: for the fear he was in of a frefh fuccour from Europe, the intrepidity of the knights, and the fhame of being forced to raile the fiege, prevailed upor him to hang out his pacific tlag, which was quickly anfwered by another on the Rhodian fide; upon which the Turks, coming out of their trenches, dclivered up the fultan's letter for the grand-malter, to the grand-prior of St Giles, and the engineer Martinengo. The terms offered in it by Solyman appeared fo advantageous, that they immediately exchanged hoftages; and the knights that were fent to him had the honour to be introduced to lim, and to hear thera confrocd by his own mouth, though not without threafs of punting. all to fire aid frood in cafe of refufal, or even delay. Two ambafladors were forthwith fent to him, to demand a truce of three days to fettle the capitulation and interefts of the inha itants, $x$ ho were part Greeks and part Latins; but this was abfolutely refufed by the impatient monarch, out of a fficion of the rumoured fuccour being near, and that the truce was only to gain time till it was come.

He therefore ordered the hoffilities to be renewed with fuelh fury; in which the Khodians made a moft

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Rhodes noble dwenice, wufidering their fmall number, and that they had now only the barbican or falle bray of the baftion of Spain left to defend themfelves, and once more repuliod the enemy: at which the fultan was fo enraged, that he refolved to overpower them by numbers on the next day; which was, after a flout defence, fo cffectually done, that they wero forced to abaudon that outwork, and retire into the city. In the meanwhile, the burghers, who had but a day or two betore raifed a frefh uproar againft the grand-mafter, under pretence that he was going to give them up a prey to an infidel who regarded neither oaths nor folemn treaties, perceiving their own danger, came now to defive him to renew the negociations, and only begged the libcrty of fending one of their deputies along with his, to ficure their interefts in the capitulation. He readily contented to it; but gave them a charge to thow the bafhaw Achmed the treaty formerly concluded between Bajazet and his predeceffor d'Aubuifion, in which the former had entailed a dreadful curfe on any of his fucceffors that fhould infringe it. This was done, in hopes that the fhowing it to his mafter, who valued himfelf fo much upon his flrict obfervance of his law, might produce fome qualm in him which might lengthen the agreement, for they were ftill as much in hopes of a fuccour from Europe as he was in fear of it; but to their great furprife, Achmed had no fooner perufed than he tore it all in pieces, trampled it under his feet, and in a rage ordered them to be gone. The grand-mafter found no other refource than to fend them back to him the next dey; when that minifter, who knew his mafter's impatience to have the affair concluded, quickly agrecd with them upon the terms, which were in fubltance as follow :

1. That the clurches fhould not be profaned. 2. That the inhabitants fhould not be forced to part with their childres to be made janiffaries. 3. That they fhould enjoy the free exercife of their religion. 4. That they thould be free from taxes during five years. 5. That thole who had a mind to leave the ifland fould have irce leave to do fo. 6. That if the grand-mafer and his knights had not a fufficient number of veffels to tranfport themelelves and their effects into Candia, the faltan flould fupply that defeet. 7. That they fhould have tweive days allowed them, from the figning of the articles, to fend all their effects on board. 8. That they fhould have the liberty of carrying away their relics, chalices, and other facred utenfils belonging to the great church of St John, together with all their ornaments and other effects. 9. That they gould likewife carry with them all the artillery with which they were wont to arm the gatleys of the order. 10. That the iflands belonging to it, toge ther with the caftle of St Peter, faculd be delivered up to the Turks. 11. That, for the more enfy execution of thefe articles, the Turkin army fhr uld be removed at fome miles difance fiom the car pital. 12. That the aga of the janiflaries, at the head of $4: 20$ of is men, hlould be allowed to gu and the poffefion of the place,

From this time the illand of Rl odes has been fubject to, the Turks; and, like other countrics fubject to that tyra ical yole, has luft its former importance. The air is ynod, and the finl fertile, but ill custivated. The ca: 'tal is furrounded with triple walls and double ditcles, and is loked upon to be impregnable. It is inhabited \&y Turks and Jews; the Chritians being obliged to oc-
cupy the fuburbs, as not being allowed to ftay in the Rlodio'a town during the night. The town is fituated in E. Long. 28. 25. N. Lat. 36. 54.

KHODIOLA, Rosk-wORT ; a venus of planis be- nius. longing to the diacia clafs; and in the natural method ranking under the $13^{\text {th }}$ order, Succulcnice. Sce Botany Index.

RHODIUMI, a metal which is obtained from the ores of platina. See Chemistry ; and under Platina, Ores, Reduction of, \& c.

Oil of RHODIUM, an effential oil obtained from a fpecies of alpalathus.

RHODODENDRON, Dwarf Rose-bay; a genus of plants belonging to the decandria clafs; and in the natural method ranking under the 18 th order, Bicornes, See Botany Indox.

RHODORA, a genus of plants belonging to the decandria clafs; and of which there is only one fpecies. See Botany Index.

RHOEA. See Rhea, Ornithology Indeá.
LHOEADEA (rheas, Linnæus's name, after Diefcorides, for the red poppy), the name of the 27 th order in Linnaus's fragments of a natural method, conffiing of poppy and a few genera which refemble it in habit and liructure. See Botany Index.

RHOMBOIDES, in Geometry, a quadrilateral figure whofe oppofite fides and angles are equal, but is neither equilateral nor equiangular.

Rhomboldes, in Anatomy, a thin, broad, and obliquely fquare flefly mufcle, fituated between the bafis of the fcapula and the fpina dorfi; fo called from its figure. Its general ufe is to draw backward and upward the fublpinal portion of the bafis fcapulæ.

RHONBUS, in Geometry, an oblique angled parallelogram, or quadrilateral figure, whole fides are equal and parallel, but the angles unequal, two of the oppofite ones being obtufe and two acute.

RHONIB Sulid, confifts of two equal and right cones joined together at their bafes.

RHONE, one of the largeft rivers in France, which, rifing among the Alps of Switzerland, paffes through the lake of Geneva, vifits that city; and then runs fouthwell to Lyons; where, joining the river Soane, it continues its courfe due fouth, paffing by Orange, A vignon, and Arles, and falls into the Mediterranean a litule above Marfeilles.

RHOPIUM, a genus of plants, belonging to the gynandria clafs; and in the natural melhod ranking with thofe that are doubiful. See Botany India.

RHUBARB. See Rhlum, Botany and Materia Medica Indox.

RHUNB, in Navigation, a vertical circle of any given place, or interfection of fuch a circle with the horizon; in which laft fenfe rhumb is the fame with a point of the compars.

RHLMB-Line is alfo ufed for the line which a Qip defcribes when failing in the fame collateral point of the compaf, or o lique to the meridians.

RIIUNKENIUS, DAvid, an eminent claffical feho. lar, rus born at Stolpen in Pruffian Pomer nia, in the ycar 1723. Of the early part of his tludies little is known, but it appears that he was fome time at Schlaf, from which lie lene ved to Konigfurg, where he met with the celebrated Kant, whole fyllem I as lo much engaged the attention of Eurofe. Ife afterwards went to

Gottingen

## $\mathrm{R} \mathrm{H} \mathrm{U} \quad[14$

Riatike Gointingen to attend the learned Gefiner, and to enlarge n'นี่. his knowledre of the Greek language. Some tinne after
this period he formed an acquaintance with Ritter and Berger while he refided at Witteburg, where he continued about two years; and his firft public attempt, being a thefis De Galla Placidia Augufa, daughter of Theodofius, and the fifter of Arcadius and Honorius, was in this place. Rhunkenius was engaged to go to Leyden by Ernefti, to complete his knowledge of ancient literature. He gave up the fludy of divinity, for which he was at firft defigned, and prevailed with his parents to allow him to go to Leyden, where he arrived with recom. mendatiors to many of the learned, and purfued his ftudies witli avidity and zeal, accompanying Alberti in his wifit to the Spa in the year 1750 . Hemflerhuis wifhed to attach him to Holland, urging him to perfevere in the fludy of the law, as affording an aidditional chance of employment. This advice he thought proper to follow, and publifhed a tranflation of fume works of Theodorus, Stephanus, and fome other celebrated lawyers in the time of Juftinian, which he foumd in manufcript in the univerfity of Leyden.

He went to Paris in the year 1755, where Caperomer, who was at that time keeper of the king's library, kindly received him ; and he formed an acquaintance with Dr S. Mufgrave and Mr T. Tyrwhit, who were there for the purpofe of examining the manufcripts of Euripides. He had alfo formed the refolution of going to Spain, but Hemfterhuis recalled him, as he needed his affiftance as lecturer in the Greek tongue. In 1755, Rhunkenius took poffeffion of his office, and read an excellent difcourfe De Gracia Artium et Doetrinarum Inventrice.

About this time he was ufeful to Ernefti, in his edition of Callimachus; and in 1761, he fucceeded Oudendorp as profeffor of hiftory and of eloquence, delivering an oration $D_{c}$ Dociore Umbratico. About a year after this event, Rhunkenius was offered the chair of Gefner by the univerfity of Gottingen, which he declined accepting, but he recommended Heyne, who was the fucceffful candidate.

In 1764 he married an Italian lady, who, about fix years afterwards, lof both her fpeech and fight by a ftroke of apoplexy. She had two daughters, one of whom was afterwards blind, and the wife of our author furvived her hufband. The defire of Rhunkenius to do Ernelti a favour, made him turn his attention to the Memorabilia of Xenophon; and he was led to examine with particular attention, the treatife of Longinus on the fublime. Having rifen fuperior to his domeftic misfortunes about the year 1772, he purfued his new edition of Velleius Paterculus, and he prepared a fecond edition of Epiftole Criticæ, and a collection of Scholia on Plato. In the year 1766, he publifhed a valuable little tract De Vita et Scriptis Longini, in the form of a thefis, to which he prefixed the name of one of his pupils. His Velleius Pa terculus appeared in ${ }^{1779}$, and in 1780 Homer's reputed hymn to Ceres. In 1786 , he publifhed the firft part of Apuleius, which had been prepared by Oudendorp, and a new edition of his own Timxus in $7^{8} 89$, and at the fame time he collected and publifhed the works of Marc-Anthony Murat, in 5 vols. octavo.

Both the body and mind of Rhunkenius were much weakened in confequence of the lofs of friends, an attack of the gout, and the misfortines of the Batavian repub-
lic ; but he was in fome'meafure relieved by the fatis- Rhunkefaction he felt at the dedication of Homer by Wolf, al. nive, though he was'not of that writer's opinion that the wrorks Rhus. of Homer were imritien by different auflhots. Ihe funk into a kind of ftupor on the $17^{\text {th }}$ of May, 1798 , which in two days put a period to his exilence.

His knowledge and learning were unquentionably great, and he was allowed to be lively, elseerful, and gay, even to an extreme. Many pofthumous honours were conferred upon him, and a pention fettled on his untortunate widow. When Whyttenbach took poffeflion of Khunkenius's chair, he delivered a difcourfe on the early age of Rhunkenius, which he propofed as an example to the Batavian youth who made the belles lettres their ftudy.

RHUS, Sumach, a genus of plants, belonging to the pentandria clafs; and in the natural method ranking under the 43 dorder, Dumofe. Sce Botany Index.

1. The coriaria, or elm leaved fumach, grows naturally in Italy, Spain, Turkey, Syria, and Palefline. The branches of this tree are ufed inftead of oak-bark for tanning of leather; and it is faid that the Turker leather is all tanned with this flurub. It has a ligneous ftalk, which divides at bottom into many irregular branches, rifing to the height of eight or ten feet; the bark is hairy, of an herbaceous brown colour; the leaves are uinged, compofed of feven or eight pair of tobes, terminated by an odd one, bluntly fawed on thcir edges, bairy on their under fide, of a yellowith-green colour, and placed alternately on the branches; the flowers grow in loofe panicles on the end of the branches, which are of a whitilh herbaceous colour, each panicle being compofed of feveral fipikes of flowers fitting clofe to the foottialks. The leaves and feeds of this fort are ufed in medicine, and are efteemed very reftringent and flyptic.
2. The typhinum, Virginian fumach, or vinegar plant, grows naturally in almoft every part of North America. This hath a woody ftem, with many irregular branches, which are generally crooked and deformed. The young branches are covered with a foft velvet-like down, refembling greatly that of a young flag's horn, both in colour and texture, from whence the common people have given it the appellation of $/ a g g^{2} s$ horn ; the leaves are winged, compofed of fix or feven pair of oblong heart-flaped lobcs, terminated by an odd one, ending in acute points, hairy on their underfide, as is alfo the midrib. The flowers are produced in clofe tufts at the end of the branches, and are fucceeded by feeds, inclofed in purple woolly fucculent covers; fo that the bunches are of a beautiful purple colour in autumn; and the leaves, before they fall in autumn, change to a puirplifh colour at firft, and before they fall to a feuillemort. This plant, originally a native of North America, has bcen long cultivated in the north of Germany, and is lately introduced into Ruffia. It has got the name of the vinegar plant from the double reafon of the young germen of its fruit, when fermented, producing either new or adding to the ftrength of old weak vinegar, whilf its ripe berries affurd an agreeable acid, which might fupply the place when neceflary of the citrie acid. The powerful aftringency of this plant in all its parts recommends it as ueful in feveral of the arts. As for example, the tipe berties boiled with alum make a good effer havst．The plant in all its parts may be ufed as a fuccedaneum fur oak－bark in tanning，efpecially the white glove leatcer．It will likewife anliwer to prepare a dye for black，grcen，and yellow colouss；and with martial vitriol io makes a good ink．The milky juice that flow＇from incifions made in the trunk or branches， makes when dried the bafis of a varnifh little inferior to the Chinefe．Bees are remarkably fond of its flowers； and it afiuds mose honey than any of the tlowering Grubs，fo that it may prove a weful branch of econo－ my，where rearing thefe infects is an object．The na－ tives of America ufe the dried leaves as tobacco．

3．The glabrum，with winged leaves，grows naturally in many patts of North America；this is commonly titled by the gardeners New England fumach．The ftem of this is tlronger and rifes higher than that of the former ；the branches fpread more horizontally；they are not quite fo downy as thofe of the laft，and the duwn is of a brownih colour；the leaves are compofed of many more pairs of lobes，which are fmooth on both fides；the tlowers are difpoted in loofe panicles，which are of an herbaceous colour．
4．The Carolinianum，with fawed uinged leaves，grows naturally in Carolina；the feeds of this were brought from thence by the late Mr Catefby，who has giver a figure of the plant in his Natural Hittory of Carolina． This is by the gardeuers called the foarkt Carolina fu－ mach；it rifes commonly to the height of feven or eight feet，dividing into many irregular branclaes，which are frooth，of a purple colour，and pounced over with a greyif powder，as are alfo the footitalks of the leaves． The leaves are compofed of feven or eight pair of lobes， terminated by an odd one；thefe are not always placed evactly oppofite on the midrib，but are fometimes al－ ternate．The upper fide of the lobes is of a dark green，and their under hoary，but frooth．The toovers are produced at the end of the branches in very clofe panicles，which are large，and of a bright red colour．
s．The Canadenfe，wiih winged fpear－foaned leaves， grows naturaily in Canada，Maryland，and feveral othcr parts of North America．This bath fmooth branches of a parple colour，covered with a grey pounce．The leaves are compofed of feven or eight pairs of lobes，ter－ minates by an odd one；the lobes are fipear thaped， fawed on their edges，of a lucid green on their upper furface，but boary on their under，and are fmooth． The flowers are produced at the end of the branches in large panicles，which are compofed of fcyeral fmaller， each flanding upon feparate footfaiks；they are of a deep red colour，and the wbole panicle is curered with a grey pounce，as if it had been featered over them．
6．The copallinum，or narrow－leaved fumach，grows naturaliy in molt paris of North America，where it is known by the title，qf beack．／umach，probably from the place where it groys．This is of humbler growth than either of the former，feldom rifiog more，than four or five feet high in Britain，dividing into many fpreading branches，which are fmooth，of a light brown colour， glofely garailhed with winged leaves，compofed of four Gr five pair of parrów，lobes，terminated by an odd one； they are iof a light grgen on both fides，and in autumn chat ge purglin．The midrib，which fuftains the lobes，
 ze
from one pair of lobes to another，ending in joints at each pair，by which it is eafily diftinguified from the other forts．The flowers are produced in loofe panicles at the end of the branches，of a yellowith herbaceous colour．

Thefe fix forts are hardy plants，and will thive in the open air here．The firit and fourth furts ate not quite fo hardy as the others，fo muft have a better if tuation，otherwife their branches will be injured by fe－ vere froft in the winter．They are eafly propagated by feeds，which if fown in autumn the plants sill come up the following fpring；but if they are fown in fpring， they will not come up till the next fpring；they may be either fown in pots，or the full ground．If they are fown in pots in autumn，the pots thould be placed under a common frame in winter，where the feeds may be protected from bard froft；and in the lipring，if the pots are planged into a very moderate it－bed，the plants will foon rife，and have thereby more time to get ftrength before winter．When the plants come up，they muft be gradually hardened to bear the open air，into which they fhould be removed as foon as the weather is favourable，placing them where they may have the morning fun；in the fummer，they muft be kept clean from wetos，and in diy weather watered．Toward au－ tumn it will be proper to ftint their growth by keeping them dry，that the extremity of their thoots may har－ den；for if they are replete with moilture，the early frofts in autumn will pinch them，which will caure their fhoots to decay almoft to the bottom if the plants are not fercened from them．If the pots are put under a common frame in autumn，it will fecure the plants from injury：for while they are young and the fhoots foft， they will be in danger of fuffering，if the winter proves very fevere；but in mild weather they mult always en－ joy the open air，therefore thould never be covered but in froft．The fpring following，juf before the plants begin to thoot，they fhould be fhaken out of the pots， and carefuily feparated，fo as not to tear the rcots；and tranfplanted into a nurfery，in rous three feet afunder， and one foot diftance in the rows．In this nurfery they may ftand two years to get frengoth，and then may be tranflanted where they are to remain．
7．Befides thefe，Linnews has included in this genus the toxicodendron or poifon tree，under the name of rhus vernix or poijon－a／b．This grows naturally in Yir－ ginia，Penfyivania，New England，Carolina，and Japan， rifing with a ftrong woody italk to the height of 20 feet and upwards；though in this country it is feldom fcen above 12，by seafon of the plants being extremely tender．The bark is brown，inclining to gray；the branches are garnibed with winged leaves compofed of thrce or four pair of lobes terminated by an odd one． The lobes vary greatly in their flape，but for the moft part they are oval and fpear－flaped．The foot－ftalks become of a bright purple towards the latter part of fum－ mer，and in autumn all the leaves are of a bcautiful pure． ple before they fall off．

All the fperies of fumach abound with an acrid milky juice，which is reckoned poifonous；but this property ？s moft remarkable in the sernix．The moft diftinct ac． count of it is to be found in Profeffor Kalm＇s Travels in North America．＂An incifion（fays he）being made into the tree，a whitith yellow juice，which has a naulsous fmey ${ }^{3}$ cormes，out between the bark and the wood．

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## R H 'U

which foon went off willout affeding me much. I have not experienced any thing more of the effects of the plant, nor had 1 any defive to to do. However, I tound that it coull not exert is power upon me when I was not peilpiring.
" 1 have never heaid th the poifon of this fumach has been incrtal, but the pain ceales after a tew days duration. The natives formerly made their thutes of this tree, becaufe is has a great deal of pilh. Some people aflured me, that a perfon fuffering from its noifome exhalations, would cafily recpover by fipreading a mixture of the wood burnt to charcoal, and hog's lard, upon the fivelted parts. Some afferted, that they had really tried this remedy. In fome places this tree is rooted ont, on purpofe that i.s poifon may not aftect the workmen."

The natives are faid to dillinguifh this tree in the dark by it extreme coldnefs to the touch. The juice of fome kinds of fumach, when expofed to the heat of the fur, becomes fo thick and clammy, that it is ufed for birdlime, and the inlpilated juice of the poiion-ath is faid to be the line varnith of Japan. A cataplafm made with the freth juice of the poilon-alh, applied to the feet, is faid by Hughes, in his Natural Hiftory of Barbadoes, to kill the vermin called by the Weft Indians chigers. Very good vine ar is made from an infufion of the fruit of an American fumach, which from that reafon is called the vinegar:-tree. The refin called gum copal is from the rhus copallinum.

RHYME, Rhime, Ryme or Rime, in Poetry, the fimilar found or cadence and termination of two words which end two verfes, \&c. Or rhyme is a fimilitude of found between the laft fyllable or fyllables of a verfe, fucceeding either immediately or at a difiance of two or three lines. Sce Poetry, $\mathrm{N}^{\mathrm{j}}{ }^{177}$, \&c.
RHYMER, Thomas tie, a poet of Seotland, who lived in the $13^{\text {th }}$ century, and whof. real mane was Sir Thomas Lermont. The life and writugs of this poet are inrolved in much obfcurity; but his fame, both as a prophet and poet, has always itood high among his countrymen. Elslement was the chief fami15 of his name, from which, it is faid, he derived his origin; but his family title appears to have been taken from Ercildon, or, as it has been corlupted in modern times, from Earlhoun, in the county of Berwick, where the remains of his houfe are litll pointed out, and known by the name of Rlyymer's Tower. The period of the union with England was the critis of his fame as an infpired poct ; for liohert Birrel informs us, that "at this tyme all the hail commons of Scotland that had red or undertlanding, wer daylic fpeiking and exponeing of Thomas Rymer hes prophefie, and of other prophefies quhilk wer prophefied in auld tymes," It is obvious that he diftinguilhed himfelf by his poetical works, as we learn from the teftimony of early writers. He is commemorated by Robert of Brunne, who lived in the begimning of the 14th century, as the author of Sir Trifrem," a romance lately publifhed by Mr Walter Scot. On a flone ftill preferved in the front wall of the church of Earlhoun we meet with this infcription :

## " Auld Rhymer's race lies in this place."

PHYTHM, in Mufic, the variety in the movement, as to the quickinefs or flownefs, length or flortnefs, of
the therefore one perfon can handle
 upon to convenience to himfeif: another perion on the colte ry, dares not modile with the tree while its wood is frefli; nor can he venture to touch a hand which has handled it, nor even to expofe himfelf to the fmoke of a fire which is made with this wood, without foon feeling its bad effects; for the face, the hands, and frequently the whole body, livells exceflively, and is afsetted with a very acute pain. Sometimes bladders or blifers arife in great plenty, and make the fick perfon look as if he were infected by a leprofy. In fome people the enal thin frin, or cuticle, peels off in a few days, as is the cafe when a perfon has fcalded or burnt any part of his body. Nay, the nature of fome perfons will not even allow them to approach the place where the tree grows, or to expofe themfelves to the wind when it carries the ellluvia or exhalations of this tree with it, without letting them feel the inconrenience of the fivelling which I have juft now defcribed. Their eyes are fometimes fhut up for one, or two, or more days together, by the fwelling. I know two brothers, one of whom could without danger handle this tree in what manner he pleafed, whereas the other could not come near it without fivelling. A perfon fometimes does not know that he has touched this poifonous plant, or that he has been near it, before his face and hands fhow it by their fwelling. I have known old people who were more afraid of this tree than of a viper; and I was acquainted with a perfon who, merely by the noxious exhalations of it, was fwellicd to fuch a degree, that he was as ftiff as a $\log$ of wood, and could only be turned about in theets.
"I have tried experiments of every kind with the poifon-tree on myfelf. I have fpread its juice upon my hands, cut and broke its branches, peeled off its bark, and rubbed my hands with it, fmelt at it, carried pieces of it in my bare hands, and repeated all this frequently, without feeling the baneful effects fo commonly annexed to it; but I, however, once experienced, that the poifon of the fumach was not entirely without effeet upon me. On a bot day in fummer, as I was in fome degree of perfipiration, I cut a branch of the tree, and carried it in my hand for about half an hour together, and finclt it now and then. I felt no effects from it in the evening. But next moming I awoke with a violent itching of my eyelids and the parts thereabouts; and this was fo painful, that I could hardly keep my hands from it. It ceafed after I had wafhed my eyes for a while with very cold water. But my eyelids were very ftiff all that day. At night the itching returned; and in the morning when I arroke, I felt it as ill as the morning before, and I ufed the fame remedy againft it. However, it continued almolt for a whole week together; and my eyes were very red, and my eyelids were with difficulty moved during all that time. My pain ceaied entirely afterwards. Ahont the fame time I had fpread the juice of the tree very thick upon my hand. Three days afier, it occafioned bliters,

## R I C

proportion which the parts of the motion liare to each other.

RIAL, or Ryal, a Spanifh coin. See MIONE . Talle.

Rial, or Royal, is alfo the name of a piece of gold anciently current among us for 10 s.
liman, or Ribran, in Heraldry, the cighth part of a tend. Sce Heraldry.

RIBAIND, or RibBon, a narrow fort of filk, chicfly ufed for head-ornaments, badges of shivalry, \&t. See Weaving.

Ribbons of all forts are prohibited from being imported.

RIBANDS (from $r i b$ and bend), in naval architecture, long narrow flesible pieces of timber, nailed upon the outfide of the ribs, from the ftem to the fternpoft, fo as to envelope the fhip lengthwife, and appear on her fide and bottom like the meridians on the furface of the globe. The ribands being judicioully arranged with regard to their height and diftance from each other, and forming regular fweeps about the fhip's body, will compofe a kind of frame, whofe interior furface will determine the curve of all the intermediate or filling-timbers which are ftationed between the principal ones. As the figure of the fhip's bottom approaches to that of a conoid, and the ribands have a limited breadth, it is anparent that they cannot be applied to this convex furface without forming a double curve, which will be partly vertical and partly horizontal ; fo that the vertical curve will increafe by approaching the ftem, and fill more by drawing near the itcrn-poft. It is alfo evident, that by deviating from the middle line of the fhip's length, as they approach the extreme breadth at the midihip-frame, the ribands will alfo form an horizontal curve. "The lowet of thefe, which is termined upon the ftem and ftern-poft, at the height of the rifing line of the floor, and anfwers to the upper part of the floor-timber upon the midfhip-frame, is called the floor-riland. That which coincides with the wing-tranfom, at the height of the lower deck upon the midfhipframe, is termed the breadth-riband; all the reft, which are placed between thefe two, are called intermediateribands. See Ship-building.

PIBES, the Currant and Gooseberry-bush, a genus of plants belonging to the pentandria clafs, and in the natural method ranking under the 36 th order, Pomacea. See Botany Index; and for the method of cultivating thefe fruits, fee Gardening.

RICAUT, or Fiycaut, Sir Paul, an eminent Englifh traveller, of the time of whofe birth we find no account ; but in 166 r , he was appointed fecretary to the earl of Winchelfea, who was fent ambaffador extraotdinary to the Ottoman Porte. Duting his continuance in that flation, he wrote, " The prefent State of the Ottoman empire, in three-books, containing the maxims of the Turkith policy, their religion, and military difcipline," London, folio, 1670 . He afterwards refided II years as conful at Smyrna, uhere, at the command of Charles II. he compofed "The prefent ftate of the Greek and Armenian Churches, anno Chrifi 1678." On his return, Lord Clarendon being appointed lordlieutenant of Ireland, made him his principal fecretary for Leinfter and Connaught; King James II. knighted lim; and made him one of the privy council in Ire-

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land, and judge of the court of admiralty ; all which he held to the Revolution. He was employed by King William as refident at the Hanfe-towns in Lower Saxony, where he continued for ten years; but being worn out with age and infirmities, he obtained leave to return in 1700 , and died the fame year. Ricaut continued "Knollcs's Hittory of the Turks," and "Platina's Lives of the Popes;" befides which, there are fome other productions under his name.

RICCIA, a genus of plants of the natural order of algæ, and belonging to the cryptogamia clafs. See BoTANY Indix.

RICE. See Oryza. "Rice bras (fays Mr Marf- Hifory of den) whilft in the hurk, is in Indian called paduee, and sumatra. affumes a different name in each of its other various p.00. fates. We obferve no diftinction of this kind in Europe, where our grain retains through all its llages, till it becomes flour, its original name of barley, wheat, or oats. The following, belide many others, are names applied to rice, in its different ftages of growth and preparation; paddee, original name of the feed: ooffoy, grain of laft feafon : bunnee, the plants before removea to the fawoors : bras, or bray, rice, the hufk of the paddee, being taken off : charroop, rice cleaned for boiling : naffice, boiled rice : peerang, yellow rice : jambar, a fervice of rice, \&zc.

Among people whofe general objects of contemplation are few, thofe which do of neceflity engage their attention, are often more nicely difcriminated than the fame objects among more enlightencd people, whofe ideas ranging over the extenfive field of art and fcience, difdain to fix long on obvious and common matters. Paddee, in Sumatra and the Malay iflands, is diftinguifhed into two forts; Laddang or upland paddee, and Sawoor or low-land, which are always kept feparate, and will not grow reciprocally. Of thefe the former bears the higher price, being a whiter, heartier, and better flavoured grain, and having the advantage iol point of keeping. The latter is much more prolific from the feed, and liable to lefs rifk in the culture, but is of a watery fubitance, produces lefs increafe in boiling, and is fubject to a frifter decay. It is, however, in more common tife than the former. Befide this general diftinction, the paddee of each fort, particularly the Laddang, prefents a variety of fpecies, which, as far as my iniormation extends, I fhall enumerate, and endeavour to defcribe. The common kind of dry ground pacidee: colour, light brown : the fize rather large, and very little crooked at the extremity. Paddee undaliong : dry ground: fhort round grain : grows in whorles or bunches round the ftock. Paddce chlafs: dry ground: large grain: commen. Paddee galioo: dry ground: light coloured: fcarce. Paddee fennee: dry ground: deep coloured: fmall grain: fcarce. Paddee ejoo: dry ground: light coloured. Paddee koowing: dry ground: deep yellow: fine rice: crooked and pointed. Paddee coocoor bollum : dry ground : much eftcemed : light coloured: fmall, and very much crooked, refembling a dove's nail, from whence its name. Paddee pefang : dry ground: outer coat light brown ; inner red : longer, fmalles, and lefs crooked than the roocoor ballum. Paddee fantong: the fineft fort that is planted in wet ground: (mall, ftraight, and light coloured. In general it may be obferved that the larger grained rice is the leaft eftemed, aud the fmaller ard whiter the moft
$\mathcal{L}$
prized.

Rice. prized. In the Lampoon country they m:ke a diatinction of paddee crawang and paddee jerroo; the former of which is a month earlier in growth than the latter."

The following is the Chinefe method of cultivating rice, as it is given by Sir George Staunton:
" Much of the low grounds in the middle and fouthern provinces of the empire are appropriated to the culture of that graid. It confitutes, in fuct, the principal part of the food of all thole imhabitans, who ate not fo indigent as to be forced to fublitit on other and cheaper kinds of grain. A great propotion of the lurface of the country is well idapted for the production of rice, which, from the time the leed is commitied to the foil till the plant approches to maturity, requires to be immerfed in a theet of water. Many and great rivers run hrough the principal provinces of Chir:a, the low grounds bordering on thofe rivers are annually inundated, by which means is brought upon thar furface a rich mud or mucilage that fertilizes the fout, in the fane maner as Egypt receives its fecundative quality from the overfowing of the Nie. The periodical rains which fall near the fources of the Yellow and the Kiang rivers, not very far diftant fiom thote of the Ganges and the Borumpooter, ameng the mountairs bounding India to the north, and Clima to the weft, often fwell thofe rivers to a prodigious hcight, though not a drop of rain thould have falle. on the plains througl which they af. terwards flow.
" Atter the mud has lain fome davs upon the plains in China, preparations are made for planting them with rice. For this purpofe, a finall picce of ground is inclofed by a bank of clay; the earth is ploughied up; and an upright harrow, with a row of wooden pins in the lower end, is drawn lightly over it by a bulfalo. The grain, which had previoufly been fleeped in durg diluted with animal water, is then fown very thickly upon it. A thin fheet of water is immediately brouglit over it, either by channels leading to the fpot from a fource above it, or when below it by means of a chain pump, of which the ufe is as fumiliar as that of a hoe to every Chinefe hufbandman. In a few days the remaincer of the grourd intended for cultivation, if 1liff, is ploughed, the lumps broken by hoes, and the furface levelled by the harrow. As foon as the floots have attained the lieight of fix or feven inches, they are plucked up by the roots, the tops of the blades cut off, and each root is planted feparately, fometimes in fmall furrows turned with the plough, and fometimes in heles made in rows by a drilling ftick for that purpofe. The roots are about half a foot afunder. Wrater is brought over them a fecond time. For the convenience of irrigation, and to regulate its prope ion, the rice fields are fubdivided by narıow ridges of clay, into fmall inclofures. Thrungh a channel, in each ridge, the watcr is conveyed at will to every fubdivifion of the field. As the rice approaches to maturity, the water, by exaporation and abforption, difappears entirely; and the crop, when ripe, covers dry ground. The firt crop or harveft, in the fouthern provinces particularly, lappens towards the end of May or beginning of June. The infrument for reaping is a fmall fickle, dentated like a faw, and crooked. Neither carts nor catle are ufed to carry the fheaves off from the fpot where they were reaped; but they are placed regularly in frames, two of which, fufpended at the extremitics of a bambuo
pole, are carried acrofs the fhoulders of a man, to the Flace intended for difengaging the grain from the dtems which had fupported it. This operation is peaformed, not only by a flail, as is cuttumary in Europe, or by cattle treading the corn in the manner of other Otientalifts, but fometimes alfo by hriking it againtt a plank fet upon its edge, or beating it againit the fide of a large tub leolloped for that furpote; the back and fides being much higher than the tront, to prevent the grain from being diperled. Afler being winnowed, it is carried to the granary.
" To remove the fk in or hulk of rice, a large ftrong earthen veffel, or hollow ftone, in form tomerwhat like that which is uled cllewhere for filtering viater, is fixed firmly in the ground; and the grain, placed in it, is ftruck with a conical flone fixed to the extremity of a lever, and cleared, fometimes indeed impelfećtly, from the hunk. The ilone is woiked frequently by a perion treading upon the end of the levar. The fame ciject is attained allo by paffing the grain between tho llat ftones or a circular form, the upper of which turns round upon the other, Lui at luch a diliance fiom it as not to break the intermediate grain. The operation is ferformed on a large icale in nills tumed by water; the axis of the wheel carrying feveral amms, which, by litiling upon the ends of levers, raife them in the fame manner as is done by treading on them. Sumetimes twenty of thefe levers are norhed at once. The itraw fiom which the grain has been dilengaged is cut chichiy into chaff, to feive as provender for thic very few catlie employed in the Chinete hufandry.
" 'The labour of the firil clop being fiminied, the ground is immociately prepared for the reception of frefh fecds. The fint operation undertaken is that of pulli, $g$ up the tubble, cullecing it into fmall heaps, which are burnt, and the afies feattered upon the ficid. The former procelies are afterwards renewed. Tl:e fecond ciop is generally ripe late in Oacher or early in Novemler. The grain is treated as tefore; but the fubble is no longer burnt. It is turned under with the plough, and left to prutrify in the earth. This, with the lime brought upon the ground by inundation, are the only manures ufually employed in the cuiture of rice."

Pice is recommended as the beft correclive of /prit flour, of which there is a great quantity in Scoliand every year, and of courfe a gicat deal of unpleafint and unwholefome bread. The witer of the juper alluded to directs ten pounds of flour and ene found of grourd rice, with the ufual quantity of y elt, to be placed for about two hours befure a fire, alld then formed into bresd in the common way. This addition of rice, lefides correcting the bad qualities of the damaged tivur, adds, he f.iys, much to is nutrinent: and be is undoultedly right ; for the fluur of rice, though very nutritiens, is fo diy, that it is cilficult to make bread of it by itfelf.

Rice-Bird. See Oryzivera, ?Ornithomogy Rice Bunting. Sce Lmbrriza, $\}$ Indea: RJCHARD I. II. and lil. kings of Lnglard. See Engeand.

HLCIIARDIA, a getus of plants belenging to the hexandria clafs, and in the natural method ranking under the $47^{\text {th }}$ order, Stellota. See Duzanx Inde.x.
hicilafidsun, Samies, a celebrated Englifh fatincutal

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$\pi$ hardia fendemental novci-wtiter, horn in 1688 , was bed to the bulinels of a printer, which he exercifed all his lite with eminience. Thourh be is frid to have undertuod no language but his own, yet he acquired great rephtation by his three epiltolary novels, entitled Pamela, Clarifia, and Sir Charles Grandifon; which fhow an uncommon knowledge of human nature. His purpofe being to promote vitue, his pictures of moral excellence are by much too highly coloured; and he has deferibed his favourite characters fuch rather as we might wih them to be, than as they are to be found in reality. It is alfo objected by fome, that his writings have not alwass the gond effect intended: for that, inftead of improving natural characters, they have faflioned many artificial ones; and have taught delicate and refined ladies and gentlemen to defpife every one But their own felfexalted perfons. But after all that can be urged of the ill. effiects of Mr Richardfon's novels on weak minds, eazer to adopt characters they can only burlefque; a fenfinle reader will inprove more by fludying fuck models of perfection, than of thofe nearer to the natural fandard of human fraility, and where thofe frailties are artfully exnggerated fo as to fix and mifemploy the attention on them. A ftroke of the pally carried of Mr Richardfon, after a few days illneef, upon the $4^{\text {th }}$ of July 176 T . He was a man of fine parts, and a lover of virtue; which, for aught we have ever heard to the contrary, he fhowed in his life and converfation as well as in his writings. Befides the works above mentioned, he is the author of an Æfop's Fables, a Tour through Britain, 4 vols, and a volume of Familiar Letters upon bufinefs and other fubjects. He is faid from his childhood to have deWhised in letter writing; and therefore was the more eafily led to throw his romances into that form ; which, if it enlivens the hiftory in fome refpeets, yet lengthens it with urinterefing prate, and formalities that mean nothing, and on that account is fometimes found a little tedious and fatiguing.

The mof eminent writers of our own country, and even of foreign parts, have paid their tribute to the tranfeendant talents of Mr Richardfon, whofe works have been publified in ainnof every language and country of Europe. They have been greatly admired, notwith fanding every diffimilitude of manners, or every difadvantage of tranlation. The celebrated M. Diderot, Speaking of the means emsloyed to move the paffions, in his Effay on Dramatic Poetry, mentions Richardfon as a perfect mafter of that art: "How friking (fays he), how pathetic, are his defriptions! His perfonages, though filent, are alive hefore me; and of thofe who freak, the attions are fill more affecting than the words,"-The fi mnus John-James Fouffeau, fpraking, in his letter to M. d'Alembert, of the novels of Richardfon, afferts, "that nothing was ever written equal to, or even approaching them, in any language." - Mr Aarm Hill calls his Pamela a "delightful nurfery of virtue."-Dr Warton fpeaks thus of Clementina: "Of all reprefentations of madnels, that of Clementina, in the Hiftory of Sir Charles Grandifon, is the moft deeply interefting. I know not whether even the madnefs of Lear is wrought up, and expreffed, by fo many little ftrokes of wature and paffion. It is ahfolute pedantry to prefer and compare the madnefs of Orefles in Luripides to this of Clementina."-Dr John-

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fon, in his Introduation to the $97^{\text {th }}$ rumber of Uhe Ruhasdte. Rambler, which was witten by Mr Richardion, obferves, that the reader was indefted for that day's entertainment to an author, " from whom the age has received greater favours, who has enlarged the knowledge of human nature, and taughe the paffions to move at the command of virtue ;" : ind, in his Life of Rowe, he fays, "The charweter of Lothario Seeros to have been expanded by Richardion into that of Lovelace; but he has excelled his original in the moral effect of the fiction. Lothario, with gaiety which cannot be hated, and buavery which cannot be deflifed, retains too much of the fpectator's kinducfs. It was in the porver of Richardfon alone to teach us at once eltecm and deteflation; to make virtuous refentment overpower all the benevolence which wit, and elegance, and courage, naturally excite; and to lofe at latit the hero in the villain."-Dr Young very pertinently obferved, that Mr Richardion, with the mere advantages of nature, improved by a vely moderate progrefs in education, fruck out at once, and of his omn accord, into a new province of writing, in which he fucceeded to admiration. And what is more remalkable, that he not only began, but finillied, the plan on which he fet out, leaving no room for any one after lim to render it more complete: and that not one of the various writers that have ever fince attempted to innitate him, have in any refpect equalled, or at all approached near hinn. This kind of romance is peculiarly his own ; and "I confider him (continues the doctor) as a truly great natural genius; as great and fupereminent in his way as Slakefpeare and Milton were in theirs."

Richardson, Jonathan, a celebrated painter of heads, Walfole's was born about the year 1665 , and again his inclination stace tes was placed by his father-in-law apprentice to a forivener, 'f Painting with whom he lived fix years; when obtaining his free- in Englank. dom by the death of his malter, he followed the bent of his difpoftion, and at 25 years old became the difciple of Riley; with whom he lived four years, whole niece he married, and of whofe manner he acquired enough to maintain a folid and lafting reputation, even during the lives of Kneller and Dahl; and to remain at the head of the profefion when they went off the flage.

There is frength, roundnefs, and boldnefs in his colouring ; but his men want dignity, and his women grace. The good fenfe of the nation is characterifed in his portraits. You fee he lived in an age when neither enthufiafm nor fervility were predominant. Yet with a pencil fo firm, poffefied of a numerous and cx: cellent collection of drawings, full of the theory, and profound in reflections on his art, he drew nothing well below the head, and was void of imagination. His attitudes, dzaperies, and back-grounds, are totally inlipid and unmeaning; fo ill did he anply to his own practice the fagacious rules and hints he beftowed on others Though he wrote with fire and judgement, his paintings owed litile to either. No man dived deeper into the inexhauflible fores of Raphael, or was morc fmitten with the native luftre of Vandyek. Yet though capable of tafting the elevation of the one and the elegance of the other, he could never contrive to fee with their eyes, when he was to cojy nature himeclf. One wonders that he could comment their works fo well, and imitate them fo littlc.
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Ri harlfon He quited bufnefs, himfelf fume years before his death; but his. temperance and virtue contributed to protract his life to a great length is the full enjoyment of his underfanding, and in the felicity of domettic friendthip. He had had a paralytic flroke that affected his arm, yet never difabled him from his cultomary walks and exercife. He had beea in St James's Park, and died fuddenly at bis houfe in Qusen's-\{quare on his return home, Miay 28.1745 , when he had paffed the Sotl? year of his age. He left a fon and four daughters, one of whom was married to kis difciple Mr Hudfon, and another to Mr Grigfon an attorney. The tafte and learning of the fon, and the harmony in which he lived with his father, are vifible in the joint works they compofed. The father in 1719 publifhed two difcourles: 1. An Elliay on the whole Art of Criticifm as it relates to Painting; 2. An Argument in behalf of the Science of a Connoiffeur ; bound in one volume octavo. In 1722 came forth An Account of fome of the itatues, bas-reliefs, drawings, and piatures, in Italy, \&c. with Remarks by Mr Richardion, fenior and junior. The fon made the journey; and from his notes, letters, and obfervations, they both at his return compiled this valuable work. As the father was a formal man, with a llow, but loud and fonorous voice, and, in truth, with fome affectation in his manner; and as there is much fingularity in his flyle and expreffion, thefe peculiarities (for they were fcarcely foibles) ftruck fuperficial readers, and betryeen the laughers and the envious the book was much ridiculed. Yet both this and the former are full of matter, good fenfe, and inftruction: and the very quaintnefs of foase expreflions, and their laboured novelty, fhow the difficulty the author had to convey mere vifible ideas through the medium of language. Thofe works remind one of Cibber's inimitable treatife on the ftage : when an author writcs on his own profefion, feels it profoundly, and is fenfible his readers do not, he is not only excufable, but meritorious, for illuminating the fubject by new metaphors or bolder figures than ordinary. He is the coxcomb that fneers, not he that inftructs, in appropriated diction.

If thefe authors were cenfured when converfant within their own circle, it was not to be expected that they would be treated with milder indulgence when they ventured into a filler region. In 1734, they publifhed a very thick oflavo, containing explanatory notes and remarks on Milton's Paradife Lolt, with the life of the author, and a difcourle on the poem. Again were the good fenfe, the judicious criticifms, and the fentiments that broke forth in this work, forgotten in the fingularities that diftinguilh it . The father having faid in apology for being little converfant in claffic literature, that he bad looked into them through his fon, Hogarth, whom a quibble could furnifh with wit, drew the father peeping through the nether end of a telefcope, with which his fon was perforated, at a Virgil aloft on a fhelf. Yet how forcibly Richardion entercd into the fpirit of his author, appears from his comprehenfive expreffion, that Milhon was an anciemt, born two thoufand years after his time. Pichardion, however, was as incapable of reaching the fublime or harmonious in poetry, as he was in painting, though fo capable of illuftrating both. Some fpecimens of verfe that he has given us here and there in his works, exsite no curioli-
ty for more, though he informs us in lis Milton, thatRichardfom if painting was his wife, poetry had been his fecret concubine. It is remarkable, that another commentator of Milton has made the fame confeftion,

## - Sunt et milhi carmina, me quogue dicunt

## Vatem pafores_

fays Dr Bentley. Neither the doitor nor the painter add fed non eggo credulus illis, though all their readers are ready to fupply it for both. Befices his pictures and conmentaries, we have a fetw etchings by his hand, particularly two or three of Milton, and his own head. The fale of his collection of drawings, in February $17+7$, lafted 18 days, and produced about 20601. his pictures about 7001 . H, idfon his fon-in-law bought many of the drawings.

RiCHELET, Cesar Peter, a French writer, born in 1631 at Chemin in Champagne. He was the friend of Patru and Ablancourt; and like them applied himfelf to the itudy of the French language with fuccefs. He compiled a diationary of that language, full of new and ufeful remarks; but excepticnable, as containing many fatirical reflections and obfcenities. The belt edition is that of Lyons, 3 vols folio, 1728. He alfo collected a fmall dictionary of rhymes, and compofed fome other pieces in the grammatical and critical way. He died in 1698.

RICHES, a word ufed always in the plural number, means wealth, money, poffeffion, or a iplendid fumptuous appearance. When ufed to exprels the forture of private perfons, whether patrimonial or acquired, it fignifies opulence; a term which expreffes not the enjoyment, but the poffefion, of numerous fuperfluities.The riches of a ftate or kingdom expreffes the produce of induftry, of commerce, of different incorporated bodies, of the internal and external adminiftration of the principal members of which the fociety is compofed, \&c.

Our Saviour fays, that it is more eafy for a camel to go through the eye of a needle, than for a rich man to enter the kingdom of heaven; and wc find, in fact, that riches frequently bring along with them a degree of inattention, lukewarmnefs, and irreligion, fuch as fufficiently confirms the divine affertion; which is metely a general truth, and which by no means ?flerts the abrolute impoffibility of being virtuous and rich at the fame time. For as the ancient philofophers wifely taught, riches, confidered in them(elves, and nbllractedly from the bad purpofes to which they may be applied, are not neceflarily incompatible with virtue and wifdom. They are indeed abfolutely indifferent; in good hands they will be ufeful, and promote the caule of truth, virtue, and humanity; and in bad hands they are the fource of much míchief; on the one hand they confer the power of doing much good, and on the other they are equally powerful in doing ill.

To inen, horsever, whofe principles of virtue are not fufficiently founded, riches are unqueflionably a dangerous and feducing bait; and as the ancients rightly taught, they are to the greateft number of men, in an infinite variety of circumftances, a powerful obflacle to the practice of moral virtues, to the progrefs of truth, and a weight which prevents them from rifing to that degree of Knowledge and perfection of which human nature is capable. Tbey multiply without ceafing thee occafions of vice, by the facility which they give to fa--,

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Fiches, tisfy a multinule of irregular pafions, and to turn at Kachateu. $\underbrace{\text { Ruchuen. }}$ length thofe who are attached to them from the road of viztue, and from the defire of inquining after truth.

It is this which Seneca means to exprefs, when he fays, "that riches in a vaft number of cafes have been a great obflacle to philofoplyy; and that, to enjoy freedom of mind neceilary for thudy, a man mult live in poverty, or as if he were poor. Erery man (adds he) who withes to lead a pleafant, traniquil, and fecure life, mitt avoid, of much as pofible, the deceitfulnefs of riches, which are a bait with which we allow ourfelves to be taken as ia a frare, without afterwards having the power to extricate ourfelves, being fo much the more unhappy, that we believe we poffels them, while, on the contrary, they tyrannize over us." Senec. Epif. 17. and Epil?. 8 .
"The wife man (fays the fame author in another place) does not love riches to excefs, but he would not choofe wholly to divelt himfelf of thens; he does not receive them into his foul, but into his houfe; he is careful of them, and employs them for the purpofe of opening a wide field for virtue, and of making it appear in all its fplendor. Who can doubt that a wife man has not more occafions of difplaying the elevation and greatnefs of his mind when he is poffeffed of riches than when he labours under indigence, fince, in the laft condition, be can exercife only one virtue, namely, refignation; whereas, riches give him an opportunity of difplaying, in their greatell luftre, the virtues of temperance, liberality, diligence, regularity, and magnificence. There is no occafion, then, to prohibit philofophers from the ufe of wealth, or to condemn wifdom to poverty. The philofopher may poliefs the greateft riches, provided he has not employed force or thed blood in acquiring them; provided he has not gained them by unjult or illegal means; in a word, provided the ule which he makes of them be as pure as the fource from which they were derived, and no perfon (the envious excepted) regretting his poffeffion ; he will not refufe the kinduefs of fortune, and will enjoy, without chame or pride, the wealth acquired by honeft mea:ts ; he will have more reafon to glory, if, after expoling his riches to the view of the whole world, he can defire any perfon to carry away the reward of treachery or the fruits of oppreffion. If, after thefe words, his riches continue undiminilhed, this man is truly great, and worthy to be rich. If he has not allowed to enter into his poffeffion the fimalleft piece of money gained by unwarrantable means, neither will he refufe the greateft riches, which are the bleffings of fortune, and the fruit of virtue: if he can be rich, he will choofe to be fo, and he fhall have riches; but he will regard them as bleflings of uncertain poffeffion, and of which he may be every moment deprived; he will not permit them to be a load to himfelf or to others; he will give them to the good, or to thofe whom he would make good; but he will give them with the nicefl wif. dom, taking care always to ditribute then to the inoft worthy, and to thofe who remember that they muft give an account, as well of the wealth which they receive from heaven, as of the purpoles to which it is applied." Senec. de Viva Beata, cap. 21, 22, \& 23.

RICHLIEU, John Aryand du Prissts df, cardinal of Richlieus and Tronfac, bithop of Iucon, \&c. was born at Paris in 1585 . He was of excellent parts;
and at the age of 22 had the addrefs to obtain a difpen- RI-hTicu, fation to enjoy the bifhopric of Lucon in 1607 . Re- Kicinis. turning into France, he appiced himfelf in a particular manner to the function of preaching; and his reputation this way procurcd him the office of almoner to the queen May de Medicis. His abilities in thie management of affairs advanced him to be fecretary of fate in $\mathbf{1 6 1 6 ;}$ and the king foon gavel him the preference to all his other fecretaries. The death of the marquis d'Ancre having produced a revolution in ftate affairs, Richlieu retired to Avignon; where he empluyed himfelf in coimpofing books of controverfy and piety. The king having recalled him to court, he was made a cardinal in 1622 ; and, two years after, firit minilier of tate, and grand mafler of the navigation. In 1626 , the ife of Rhée was preferved by his care, and Rochelle taken, having ftopped up the haven by that famons dyke which he ordered to be made there. He accompanied the king to the fiege of Cazal, and contributed not a little to the raifing of it in 1629 . He alfo obliged the Hugue nots to the peace at Alets, which proved the ruin of that party; he took Pamerol, and fuccoured Cazal befieged by Spinola. In the mean time the robles found fault with his conduct, and perfuaded the king to dil. card him. The cardinal, for his part, was unmoved. with it; and by his reafonings overthrew what wasthought to be determined againit him ; fo that, infteac' of being difgraced, he from that moment became more powerfal than ever. He punithed all his enemies in the fame manner as they would have had him fuffer; and the day which produced this event, fo glorious to Cardinal Richlieu, was called the day of dupes. This able minifter had from thenceforwards an afcendancy over the king's mind ; and he now refolved to humble the exceffive pride of the houfe of Aultria. For that purpofe he concluded a treaty with Guftavus Adolphus king of Sweden, for carrying the war into the heart of Germany. He alfo entered into a league wich the duke of Bavaria; fecured Lorrain; raifed a part of the princes of the empire againft the emperor; treated with the Dutch to continue the war againft Spain; favoured the Catalans and Portuguefe till they fhook off the Spanilh yoke; and, in Chort, took fo many different meafures, that lee accomplifhed his defign ; and after having carried on the war with fuccefs, was thinking of concluding it by a peace, when he died at Paris on the 4 th of December 1642 , aged 58 . He was interred in the Sorbonne, where a magnificent maufoleum is erected to his memory. This great politician made the arts and fciences Hourifh; formed the botanical garden at Paris, called the king's garden; founded the French academy; eitablifhed the royal printing houfe; etected the palace afterwards called Le Palais Royal, which he prefented to the king; and rebuilt the Sorbonne with a magnificence that appears truly royal. Befides his books of controverfy and piety, there go under the name of this minitter, A Journal, in 2 vols 12 mo ; and a Political Teltament, in 12 mo ; all treating of pulitics and Itate affairs. Cardinal Mazarine purfued Richlieu's plan, and completed many of the fchemes which he had began, but left unfinibed.

RICINUS, or palma Cheisti, a genus of plants belonging to the monoceia clafs, and in the natural method rarking under the 38 th erder, Tricocce. See Botafy and Materia Medica hider.

## $R$ I D

RICKETS, in Medicine. See there, No 347. RICOCHET, in Gimnery, is when guns, howitzers, or mortars, are loaded with finall charges, and elevated from 5 to 12 degrees, fo as to fire over the parapet, and tibe thut or thell rolls along the oppofite rampart : it is called ricochet-firing, and the batteries are likewife called ricochuc-batteries. This method of firing was firt invented by M. Belidor, and firft uled at the fiege of Ath in 1697. This mode of fring out of mortars was firlt tried in 1723 at the military fchool at Strabourg, and with fuccels. At the battle of Rofbach, in $\mathbf{1 7 5 7}$, the king of Prufia had feveral 6 -iisch mortars made with trunnions, and mounted on travel-ling-carriages, which fired obliquely on the enemy's lines, and amongt their horfe, loaded with 8 ounces of powder, and at an elevation of one degree 15 minutes, which did great execution ; for the fhells rolling along the lines, with burning fufes, made the ftoutelt of the enemy not wait for their burfting.

RICOTIA, a genus of plants, belonging to the tetradynamia clafs; and in the natural method ranking under the 39 th order Siliquofa. See Botany Index.

RIDEAU, in Fortification, a fimall elevation of earth, extending itfelf lengthwife on a plain; ferving to cover a camp or give an advantage in a polt.
Rideau is fometimes allo ufed for a trench, the earth of which is thrown up on its fide, to ferve as a parapet for covering the men.

PIDGE, in Agriculture, a long piece of rifing land between two furrors. Sce Agriculture.
RIDGLING, or RIDGEL, among farriers, \&c. the the male of any beaft that has been but half gelt.

RIDICULE, in matters of literature, is that fpecies of writing which excites contempt with laughter.

The ridiculous, however, differs from the rifible, (fee Risible). A rifible object produceth an emotion of laughter merely: a ridiculous object is improper as well as rifible; and produceth a miscd emotion, which is vented by a laugh of derifion or fcorn.

Burlefque, though a great engine of ridicule, is not confined to that lubject; for it is clearly diffinguifhable into burlefque that excites laughter merely, and burlefque that provokes derifion or ridicule. A grave fabject in which there is no impropriety, may be brought dorm ty a certain colouring fo as to be rifi--ble; which is the cafe of I'irgil Traveflie, and alio the cale of the Secchia Rapila ; the authors laugh firt, in order to make their readers laugh. The Lutrin is a and trifing incident, to expofe the luxury, indolence, and contentious fpiti: of a fet of monks. Buileau, the author, gives a ridiculous air to the fubject, by drefling it in the heroic fyyle, and affecting to confider it as of the utmeft dignity and importance. In a compofition of this kind, no image profefiedly ludicrous ought to find quarter, becaufe fuch images deftroy the contrait ; and ascordingly the author fhows always the grave face, and never once betrays a fimile.

Though the burlefque that aims at ridicule produces its effeets by elevating the fyle far above the fubject, yet it has limits beyond which the elevation ought not to be carricd: the poet, coufulting the imagination of his rcaders, ought to confine himbelf to fuch images as are lively, and readily apprehended : a fraired elevation, foaring above an ordinary reach of fancy, makes

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not a plcafiant imprefion: the reader, fatigued wilh patictics being alyays upon the ftretch, is loon difguited; and, if he penfevere, becomes thonghlet's and indifferent.Further, a fiction gives no plealiure unlds it be painted in colours fo lively as to produce fome perception of reality; which never can be done effectualiy where the images are formed with labour or difficaly. For thefe reatons, we cannot avoid condemming the Batrachiompomachia, faid to be the compolition of Homer : it is beyond the power of imagimation to form a clear and lively image of frogs and mice acting with the digrity of the higheft of our fpecies; nor can we form a conception of the reality of fuch an action, in any manner fo dintinct as to intereft cur affections even in the llightell degrec.

The Rape of the Lock is of a character ciestly dittinguifhable from thofe now mentioned; it is aot properly a burlefque performance, but what may rather be termed an heroi-comical pocm: it treats a gay and familiar fubject with pleafantry, and with a moderate degree of dignity : the author puts not on a malk like Boileau, nor profeffes to make us laugh like Taffoni. The Rape of the Lock is a genteel fpecies of writing, lefs itrained than thofe mentioned ; and is pleafant or ludicrous without having ridicule for its chief aim ; giving way, howerer, to ridicule, where it naturally arifes from a particular character, fuch as that of Sir Plume. Addifon's Spectator *, upon the exercife of the fan, is extremely gay and ludicrous, refembling in its fubject the $\mathrm{N}^{\circ} \mathrm{N}$ roz. Rape of the Lock.

There remains to flow, by examples, the manner of treating fubjects fo as to give them a ridiculous appearance.

Il ne dit jamais, je vous donne, mais, je rous prete le bon jour.

Moliere.
Orleans. I know him to be valiant.
Con/able. I was told that by one that knows him better than you.

Orleans. What's be ?
Conflable. Marry, he told me fo himfelf; and he faid, he car'd not who knew it. Herry V. Shakepicare.

He never broke any man's head but his own, and that was againft a poft when he was drunk.

Millamont. Sententious Mirabel! prithee don't look with that violent and inflesible wife face, like Solomen at the dividing of the child in an old tapeftry-hanging,

Way of the Worla.
A true critic, in the perufal of a book, is like a dog at a feaft, whofe thoughts and fomach are wholly fet upon what the guefts fling away, and confequently is apt to fnarl moft when there are the feweft bones.

Tale of a Tub.
In the following inflances, the ridicule arifes from abfurd conceptions in the perfons introduced.

Mafcarille. Te fouvient-il, vicomte, de cette demilune, que nous emportames fur les eremis au ficge $d^{\prime} A$ fras?

Jodelet, Que veux-tu dire avec ta demi-lune? cetoit bien une lune toute entiere.

Molitere, les Prccicufis Ridicules, fc. 11.
Slander. I came yonder at Eaton to marry Mrs Anve Page ; and The's a great lubberly boy.

Page.

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Ridicule. $\xrightarrow{-}$

Page. Upon my life then you took the wrongSionder. What need you tell me that? I thim fo when 1 took a boy for a girl : if I had been married to him, for all he was in woman's apparel, I woyld not have had him.

Merry Wiacs of Windjor.
Valentine. Your beffing. Sir.
Sir Sumpfon. Y'ou've had it al:cady, Sir; I think I fent it you lo-day in a till for four theuland peunds; a greas deal of money, broher Forefight.
Frefish. Ay, indeed, Sir Samplun, a great deal of money lor a young man; I wonder what li.e can do with it.

Love for Love, act ii. fc. 7.
Mililamens. I naufeate walking; 'tis a country diverfion; I lothe the country, and every thing that relates to it.

Sir Wrifull. Indeed, hah! look re, look ye, you do? nay, 'tis like you may - herc are choice of paftimes here in romn, as plays and the like; that muft be confefs'd, it derd.

Miflament. Ah l'etourdie! I hate the torm too.
Sir IViifull. Dear heart, that's much--hah! that you flould hate 'em both! hah! 'tis like you may; there are fome cannot relifh the town, and others can't away with the countery_-', is like you may le one of thele, Coufin. Way of the World, act iv. ic. 4.
Lord Froth. I affure you, Sir Paul, I laugh at nobody's jeits but my own, or a lady's : I affure you, Sir Paul.

Brijk. How? how, my Lord? what, affront my wit ? Let me perifh, do I never fay any thing worthy to be laugli'd at?

Sord Froth. O foy, do'nt mifapprehend me, I don't fay fo, for 1 often fmile at your conceptions. But there is nothing more unbecoming a man of quality than to laugh; 'tis fuch a vulgar expreflion of the paffions! every body can laugh. Then efpecially to laugh at the jeft of an inferior perfon, or when any body clie of the fame quality does not laugh with one; ridiculous! 'To be pleas'd witb what pleates the crowd! Now, when I lugh I always laugb alone.

Double Dealer, act i. fc. 4 .
So fharp-fighted is pride in blemifhes, and fo willing to be gratified, that it takes up with the very nightelt improprieties: fuch as a blunder by a foreigncr in fpeaking our language, efpecially if the blunder can bear a fenfe that reflects on the foeater :

Quickly. The young man is an honeft man.
Caius. What fhall de honeft man do in my clofet? dere is no honeft man dat fhall come in my clofet.

Merry Wives of Windfor.
Love fpecches are finely ridiculed in the following paflage:

Quoth he, My faith as adamantine,
As chains of defliny, I'll maintain ;
True as Apollo ever fooke,
Or oracle from heart of oak;
And if you'll give my flame but vent,
Now in clofe hugger-nugger pent,
And thine upon me but beniguly,
With that one and that other pigfney,
The fun and day flall foozer part
Than love, or you, fhake off my heart;

## f I D

The fur, that hiall no more difpenfe
His own, but : our bright influence:
l'il carve yoir name on batks of tiecs,
With true love knots and trourihies;
That hall infufe eternal fpring, And everlalting fiourihing :
Drink every letter orit in itum,
And make it brifk champaigne become.
Where'er you tread, your foot fhall fet
The primiofe and the violet ;
All fpices, perfumes, and fweet powders
Shall burrow from your breath their odours;
Nature her chatter fhall reneiv
And take all lives of things from you;
The world depend upon your cye,
And, when you frown upon it, die.
Only our loves fhall fill furvive, New worlds and natures to outlive; And, like to herald mocus, remain All crefcents, without change or wane.

Hudibras, part 2. canto I,
Thofe who bave a talent for ridicule, which is feldom united with a tafte for delicate and refined beatuties, are quick fighted in improprieties; and thefe they eagerly grafp, in order to gratify their favourite propenfity. Perlons galled are provoked to maintain that ridicule is improper for grave fubjects. Subjects really grave are by no means fit for ridicule ; but then it is urged againf them, that, when called in queftion whether a certain fubject be really grave, ridiculc is the only means of determining the controverfy. Hence a celebrated queflion, Whether ridicule be or be not a teft of truth ?
On one fide, it is obferved, that the objects of ridicule are falfehood, incongruity, impropriety, or turpitude of certain kinds: but as the object of every excited paffion muft be examined by reafon, before we can determine whether it be proper or improper; fo ridicule muft, apparently at leaft, eftablifh the truth of the imptoprieties defigned to excite the pafion of contempt. Fince it comes in to the aid of argument and reafon, when its impreffions on the imagination are confiftent with the nature of things; but when it frikes the fancy and affections with fictitious images, it becomes the inArument of deceit. But however ridicule may imprefs the idea of apparent turpitude or falfebood in the imagination, yet fill reafon remains the fupreme judge; and thus ridicule can never be the final teft or touchftone of truth and falfehood.

On the other fide, it is contended that ridicule is not a fubject of reafoning, but of fenfe or tafte; (fee and compare the articles Risible and Congruity. Stating the queftion, then, in more accurate terms, Whether the fenfe of ridicule be the proper teft for ditinguining ridiculous objects from what are not fo? they proceed thus: No perfon doubts that our fenfe of beauty is the true teft of what is beautiful ; and our fenfe of grandeur, of what is great or fublime. Is it more doubtiul v:hether our fenfe of ridicule be the true teft of what is ridiculous? It is not on! y the true telt, but indeed the oniy telt; for this fubject conses not, more than beauty or grandeur, under the province of reafon. If any fubject, by the influence of fufhion or cuftom, hive acquurcd a degree of veneration to which naturally

## R I D

Ridicule, Kiding.
it is not entitled, what are the proper means for wiping off the artificial colouring, and difplaying the fubject in its true light? A man of true tafte lees the fubject without difguife; but if he hefitate, let him apply the teif of ridicule, which feparates it from its artificial connections, and expofes it naked with all its native im-proprieties.-But it is urged, that the graveft and moft ferious matters may be fet in a ridiculous light. Hardly fo; for where an object is neither rifible nor improper, it lies not open in any quarter to an attack from ridicule.

RIDING, in general, fignifics the being carried along on any vehicle.

Riding on horfeback. See Horsemanship.
Riding, in Medicine. During this exercife all the vifcera are fhaken, and preffed againit each other; at the fame time the pure air acts with a greater force on the lungs. Weakly perfons, or thofe whofe flomachs are infirm, fhould, however, be cautious of riding befose their meals are fomewhat digefted.

Riding, in naval affairs, is the fate of a hip's being setained in a particular ftation, by means of one or more *eables with their anchors, which are for this purpofe funk into the bottom of the fea, \&c. in order to prevent the veffel from being, driven at the mercy of the wind or current.-A rope is faid to ride, when one of the turns by which it is wound about the capftern or windlafs lies over another, fo as to interrupt the operation of heaving.

Riding Alliwart, the pofition of a fhip which lies acrofs the direction of the wind and tide, when the former is fo ftrong as to prevent her from falling into the current of the latter.

RIDING between the Wind and Tide, the fituation of a velfel at anchor, when the wind and tide act upon her in direct oppofition, in fuch a manner as to deftroy the effort of each other upon her hull ; fo that the is in a manner balanced between their reciprocal force, and rides without the leaft ftrain on her cables. When a fhip does not labour heavily, or feel a great ftrain when anchored in an open road or bay, fhe is faid to ride eafy. On the contrary, when fhe pitcles violently into the fea, fo as to ftrain her cables, mafts, or hull, it is called riding hard, and the veffel is termed a bad roader. A fhip is rarely faid to ride when the is faftened at both the ends, as in a harbour or river; that fituation being cornprehended in the article Mooring.

Riding, a diftrict vifited by an officer.-Yorkinire is divided into three ridings, viz. the eaft, weft, and north ridings. In all indictments in that county, both the town and riding muft be expreffed.

Riding, as connected with gardening, and fufceptible of embellifhment. See Gardening.

A riding, though in extent differing fo widely from a garden, yet agrees with it in many particulars : for, exclufive of that community of character which refults
Decorations from their being both improvements, and both deftined of a riding. to pleafure, a clofer relation arifes from the property of a riding, to extend the idea of a feat, and appropriate a whole country to the marnfion; for which purpufe it muft be diftinguifhed from common roads, and the marhs of diftinction muft be borrowed from a garden. Thofe which a farm or a park can fupply are faint and few; but whenever circumftances belonging to a garden occur, they are immediately received as evidence of the
domain. The fpecies of the trees will often be deci- Ridingo five: plantations of firs, whether placed on the fides of the rray, or in clumps or woods in the view, denote the neighbourhood of a teat : even limes and horle-chefnuts are not indifferent; for they have always been frequent in improvements, and rare in the ordinary feenes of cultivated nature. If the riding be carried through a wood, the fhrubs, which for their beauty or their fragrance bave been tianiplanted from the country into gardens, fuch as the fweet-briar, the vibumum, the euoriymus, and the woodbine, thould be encouraged in the underwood; and to thefe may be added feveral which are fill pectuliar to flarubberies, but which might cafily be transferred to the wildeft coverts, and would require no further care.

Where the fpecies are not, the difpofition may be particular, and any appearance of defign is a mark of improvement. A few trees flanding out from a hedgerow, raife it to an clegance above common rufticity: and fill more may be done by clumps in a field; they give it the air of a park. A clofe lane may be decorated with plantations in all the little vacant fpaces: and even the groups originally on the fpot (whether it be a wood, a field, or a lane), if properly felected, and thofe only left which are elegant, will have an effect ; though every beauty of this kind may be found in nature, yet many of them are feldom feen together, and nevet unmixed. The number and the choice are fymptoms of defign.

Another fymptom is variety. If the appendages of the riding be different in different fields, if in a lane, or a wood, fome diftinguifling circumftance be provided for every bend; or when, carried over an open expofure, it winds to feveral points of view; if this be the conduct throughout, the intention is evident, to amufe the length of the way : variety of ground is alfo a characteriftic of a riding, when it feems to have proceeded from choice; and pleafure being the purfuit, the changes of the fcene both compenfate and account for the circuity.

But a part undiftinguifhed from a common road, fucceeding to others more adorned, will by the contraft alone be fometimes agreeable; and there are beauties frequent in the high-way, and almoft peculiar to it, which may be very acceptable in a riding: a green lane is always delightful; a paflage winding between thickets of brambles and briars, fometimes with, and fometimes without a little fpring-wood rifing amongit them, or a cut in a continued fweep through the furze of a down or the fern of a heath, is generally pleafant. Nor will the character be abfolutely loft in the interruption, it will foon be refumed, and never forgotten; when it has been once ftrongly impreffed, very flight means will preferve the idea.

Simplicity may prevail the whole length of the way when the way is all naturally pleafant, but efpecially if it be a communication between feveral fpots, which in claracter are raifed above the reft of the country: A fine open grove is unufuai, except in a park or a garden; it has an clegance in the difpofition which camot be attributed to accident, and it feems to require a degree of prefervation beyond the care of mere bufbandry. A neat railing on the edge of a fleep which commands a profpeet, alone diffinguithes that frem other points of vicw. A building is ftill more
ftrongly

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Riding. $\xrightarrow{\text { Rine }}$
frongly charaserific: it may be only orramental, or it may be accomunodated to the reception of company ; for though a place to alight at interrupts the range of a riding, yet, as the object of an airing, it may often be acceptable. A fmall fpot which may be kept by the labour of one man, inclofed from the fields, and converted into a flirubbery or any other fcene of a garden, will fometimes be a pleafing end to a fhort excufion from home : nothing fo effectually extends the idea of a feat to a diffance; and not' being conftantly vifited, it will always retain the charms of novelty and variety.

When a riding is carried along a high road, a kind of property may in appearance be claimed even there,
by planting on both fides trees equidiftant from each other, to give it the air of an approach : regularity intimates the neighbourhood of a manfion. A village therefore feems to be within the domain, if any of the inlets to it are avenues : other formal plantations about it, and fill more trivial circumftances, when they are evidently ornamental, fometimes produce and always corroborate fuch an effeet; but even without raifing this idea, if the village be remarksble for its beauty, or only for its fingularity, a paffage through it may be an agreeable incident in a riding.

The fame ground which in the fields is no more than rough, ofien feems to be romantic when it is the fite of a village; the buildings and other circumftances mark and aggravate the irregularity. To ffrengthen this appearance, one cottage may be placed on the edge of a fleep, and fome winding fleps of unhewn ftone lead up to the door; another in a hollow, with all its little appurtenances hanging above it. The pofition of a few trees will fometimes anfwer the fame parpofe; a footbridge here and there for a communication between the fides of a narrow dip, will add to the character; and if there be any rills, they may be conducted fo as greatly to improve it.

A village which has not thefe advantages of ground, may, however, be beautiful ; it is diffinguifhed by its elegance, when the larger intervals between the houfes are filled with open groves, and little clumps are introduced upon other occafions. The church often is, it generally may be, made a pieturefque object. Even the cottages may be reat and fometimes grouped with thickets. If the place be watered by a flream, the crofings may be in a variety of pleafing defigns; and if a fpring rife, or only a well for common ufe be funk by the fide of the way, a little covering over it may be contrived which fuall at the fame time be fimple and pretty:

There are few villages which may not eafi'y be rentered agreeable. A finall alteration in a houfe will fometimes occafion a great difference in the appearance. By the help of a fev trifing plantations, the objects which bave a good effect may be frown to advantage, thofe which have not may be concealed, and fuch as are fimilar be difguifed. And any form which offend, the eye, whether of ground, of trees, or of brilliing, m. $y$ fometimes be broken by the fighteit circum iances, by an advanced paling. or only by a bench. Variety and beauty, in fuch a fubjeet, are ratligr the efects of ittontion than expence.

But if the paffage through the vi"oge cannot be pleafant; if the buildings are all alike, or fland in unVol. XVIII. Patt I.
meaning rows and fimilar fituations; if the place furnifhes no opportunities to contraft the forms of dwellings with thofe of out-houfes; to introduce trees and thickets; to interpofe fields and meadows; to mix farms of the with cottages; and to place the feveral ohjects in dif-defigned ferent pofitions: yet on the outfide even of fuch a vil-for obpels lage there certainly is room for wood; and by that in a rid $\S$ alone the whole may be grouped into a mafs, which fhall be agreeable when fisired by a riding; and ftill more fo when feen from a diftance. The feparate farms in the fields, alfo, by planting fome trees about them, or perhaps only by managing thofe already on the fpot, may be made very interefting ebjects; or if a new one is to be built, beauty may be confulted in the form of the houfe, and the difpofition of its appurtenances. Sumetimes a character not their orrn, as the femblance of a cafle or an abbey, may be given to them; they will thereby acquire a degree of confideration, which they cannot otherwife be entitled to: and objects to improve the views are fo important to a riding, that buildings muft fometimes te erected for that purpore only: but they fhould be fuch as by an actual effect adorn or dignify the fcene; not thofe little flight deceptions which are too well known to fucceed, and have no merit if they fail: for though a fallacy iometimes contributes to fupport a character, or fuggefts ideas to the imagination, yet in itfelf it may be no improvement of a fcene; and a bit cf turret, the tip of a fpire, and the other ordinary fubjects of thefe frivolous attempts, are fo infignificant as objects, that whether they are real or fictitious is almoft a matter of indifference.

The fame means by which the profpects from a of a sardea riding are improved, may be applied to thofe from fimilar in a garden; though they are not effential to its charac-citaracter ter, they are important to its beauty; and whereverto a ridy" they abound, the extent only of the range which commands them, determines whether they fhall be feen from a riding or a garden. If they belong to the latter, that affumes in fome degree the predominant properties of the former, and the two characters approach very near to each other : but ftill each has its peculiarities. Progrefs is a prevailing idea in a riding; and thepleafintnefs of the way is, therefore, a principal confideration; but particular fpots are more attended to in a gaden ; and to them the communications ought to be fubordinate ; their direction muft be generally accommodated, their beauties fometimes facrificed, to the fituation and the character of the feenes they lead to; an advantagous approach to thefe muft be prefersed to an agreeable line for the walk; and the circumftances which might otherwife becone it are mifplaced, if they anticipate the openings: it fhosld $f$ mitimes be contrafled to them; be retired and dark if they are fplendid $0^{r}$ g $y$, and fimple if they are richly adorned. At other times it may burft un spe? account of the furprife, which can lave i's effect only once; but the impreftions: e ftronaer by being fudden; ald the contran is enforeed by the ruickiels of the thanlition.

In a $r$ ding, the fct es are ont $\because$ the amufements of the vay, throu-h which it proceeds v it ot Paping: in a girden they are principal; and the ruburdination of the walk raiks their importance. Every art, therefore, foould be exeried to make them feem parts of the D place.

## R I D [ 26 $] \quad$ R I D

Riding. - $\mathrm{V}^{-2}$
place. Difant profpets cannot be fo; and the alienation does not offend us; we are fimmiavized to it; the exteat furoids every thought of a cluter connection; and it a coatinuation : $\because$ prelerved bewsen them and the poias which command them, we are fatisfied. Liut hume-views ligueft other jdeas; they appear to be within our reach: they are not only beautiful in profpect, and we can perceive that the fpots are delighiful; bat Te with to examine, to inhabit, and to enjoy them. Every apparent invediment to that gratification is a diappointment ; and when the fcenes begin beyond the opewing, the confequence of the place is luwerd; nothing within it engages our notice: it is an exhibiton only of beauties, the property of which docs not belong to it; and that idea, though indifferent in a riding, which is but a paflige, is rery difadvantageous 10 tuch a refidence as a garden. To obriate fuch an idea, the points of viev thould be made important; the oujecis within be appendages to thofe without; the epz:ations be removed or concealed; and large portions of the garden be annexed to the fpots which are contiguous to it. The ideal boundary of the place is then carried beyond the fcenes which are thus appropriated to it ; and the wide circuit in which they lie, and the different pofitions in which they may be ihown, afiord a greater variety than can generally be found in any garden, the feenery of which is confined to the inclofure.

Persield (A) is not a large place; the park contains about 300 acres; and the houfe ftands in the midit of it. On the fide of the approach, the inequalities of the grond are gentle, and the plantations pretty; but nothing there is great. On the other fide, a beautiful Juwn falls precipitately every way into a deep vale which Ghelves down the middle ; the declivities are diverffied with clumps and with groves; and a number of large tress itraggle along the bottom. This lawn is encompaffed will wood; and through the wood are walks, which open beyond it upon thole romantic ficenes which furround the park, and which are the glory of Persfield. The Wye runs inmediately below the wood: the river is of a diriy colour; but the flape of its counfe is very various, winding firlt in the form of a horfc.flese, then proceeding in a large fweep to the town of Chepftowe, and afterwards to the Severn. The banks are high hiils; in different places fleep, bulging out, or hollow on the fides; rounded, flattened, or irregular at top; and covered with wood, or broken by rocks. They are fometimes feen in front; fometimes in perfpective; falling back for the paffage, or clofing bchind the bend of the river; appearing to meet, rifing above, or thooting out beyond one another. The wood which inclofes the lawn crowns an extenfive range of thefe hills, which overlook all thofe on the oppofite fliore, with the country which appears above or between them; and winding themfelves as the river winds, their fides, all rich and beantifil, are alternately exhibited; and the point of vierv in one fpot becomes an object to the next.

In many places the principal feature is a continued rock, in length a quarter of a mile, perpendicular, high, and placed upon a height. To refemble ruins is com-
mon to roch, by no ruin of any fingle finuture was ever equat to the enormous pile ; it leems to be the remaths o: a city; and other imatier heajs featiered about is appear to oe tamiel traces of the former exteat, and ticalgusar the fimistade. It atretches along the brow w-icl termmates the forent of Dean; the face of it is compuled of imine - Se blocks of tione, but not rushed; the op is oare and uneven, out not craggy ; and trom the, fout of it, a decinsiy, cuvered with thicket, flopes gently iswards ine Wye, but in one part is aoruptly broken oif by a ledge or rocks, of a dutierent Bue, and in a diferent direction. From the groto it feems to rile immecliately over a thick wood, which extends down a hill below the point of view, acrols the valley through which the Wye tlows, and up the oppolite banks, hides the river, and contmues without interruption to the boitum of the rock: from another ieat it is leen by iffelf wiunout even its bafe; it faces another. with all its appendages about it; and fumetimes the fight of it is pertially intercepted by trees, beyond which, at a ditance, its loag line continues on through all the openings between thear.

Aiother capital o'ject is the caftle of Chepitore, a noble ruin of great extent; advanced to the very edge of a perpendicular rock, and fo immediately rivetted into it, that from the top ot the battlements down to the river feems but one precipice: the fame ivy which overfpreads the face of the one, twincs and clufters among the fragmenis of the other; many towers, much of the walls, and large remains of the chapel, are fland. ing. Clule to it is a mort romantio wooden bridge. very anciert, very grotefque, at an extraordinary height above the river, and feeming to abut againt the ruins at one end, and fune rocky hills at the other. The caftle is fo near to the alcove at Persfield, that little circumfances in it may be difcerned; from other fpots more diftant, even from the lawn, and from a frubbery on the fide of the lawn, it is ditinctly vifible, and always beatiful, whether it is feen alone, or with the bridge, with the toin, with more or with lefs of the rich meadows which lie along the banks of the Wye, to its junction three miles off with the Severn. A long fweep of that river alfo, its red cliffs, and the fine rifing country in the counties of Somerfet and Groucticr, generally terminate the profpect.

Nof of the hills about Persfield are full of rocks; fome are iniermixed with hanging woods, and either advance a iittle before them, or retire within them, and are backed, or overhung, or leparated by trees. In the walk to the cave, a long fucceffion of them is frequently feen in perfpective, all of a dark colour, and with wood in the intervals between them. In other parts the rocks are more wild and uncouth; and fometines they itand on the tops of the higheft hills; at other times down as low as the river ; they are lomeobjects in one fpot, and appear only in the back-ground of another.
The woods concur with the rocks to render the fcenes of Persfield romantic; the place everywhere abounds with thern; they cover the tops of the hills; they hang on the fteeps; or they fill the depths of the valleys.
(A) The feat of Mr Morris, near Cheplowe, in Monmouth(hise.
W... above, in another they fink below the point of view; they are feen fometimes retiring beyond each other, and
darkening as they recede; and fometimcs an opening between two is clofed by a third at a ditance beyond them. A point, called the iover's Leap, commands a continued furface of the thickeft foliage, which orerfpreads a vat hollow immediately underneath. Below the Chinefe feat the courfe of the lije is in the llape of a horle-fioe : it is on one fide incluled by a lemicircular hanging wood; the direct Itecps of a table-hill fhut it in on the other; and the great rock fills the :nterval between them : in the midit of this rude feene lics the peninfula formed by the river, a mile at the leatt in length, and in the ligghe! lave of cultivation : near the itthmus the ground rics confideraily, and thence defcends in a broken fu:face, till it flattens to the watcr's edge at the other extremity. The whole is divided into corn fulds and paltures; they are feparated by hedgerows, coppices, and thickets; open clumps and lingle trees ftand out in the meadows; and houles and other buildings, which belong to the farms, are fcattered amongit them : nature fo cultivated, furrounded by nature lo wild, compofe a moit lovely landicape together.

The communications between thefe reveral points are generally by clofe walks; but the covert ends near the Chinefe feat; and a path is afterward conducted through the upper park to a ruftic temple, which overlooks on one fide fome of the romantic views which have been defcribed, and on the other the cultivated hills and valleys of Monmouthhire. To the rude and naznificent fcenes of nature now fucreeds a pleafant, fcrite, and and beautiful country, divided into inclofures, not covered with woods, nor broken by rocks and precipices, but only varied by eafy fiwells and gentle declivities. Yet the profpect is not tame; the hills in it are high; and it is bounded by a vaft lweep of the Severn, which is here vifible for many miles together, and receives in its courle the Wye and the Avon.

From the temple a road leads to the Windcliff, an eminence much above the reff, and commanding the whole in one view. The Wye runs at the foot of the hill ; the peninfula lics juft below ; the deep bofom of the femicircular hanging wood is full in fight; over part of it the great rock appears; all its bafe, all its acompaniments, are feen; the country imrnediately beyond it is full of lovely hillocks; and the higher g -ounds in the coumties of Somerfet and Gloucelter rife in the forizon. The Severn feems to be, as it really is, above Chepitcwe, three or four miles wide; belov the town it fpreads almoit to a fea; the county of Monmouth is there the hither fhore, and between its beautiful hills appear at a great diffance the mountains of Brecknock and Glamorgan Mire. In extent, in variety, and grandeur, few profnects are equal to this. It comprehends all the noble fcenes of Perffield, ericompaffed by fome of the fineft cousitry in Britain. See Gardfnisg.

RIILLEY, Nicholas, bithop of London, and a martyr to the Reformation, was defcended of an ancient family, and born in the beginning of the 16 th century, at Wilinontfwick in Northsmberland. From the gram-mar-fchool at Newcaftle upon Tyne, he was lent to Pembroke-ball in Cambridge, in the year 1518, where

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he was lupported by his uacle Dr Robert Ridley, fellow of Queen's college. In 1522 he took his firit degree in atts; two ycars after, was clected fellow; and, in 1525 , he commenced mailer of arts. In 1527 , having taken orders, he was fent by his uncle, for turther impiovement, to the Sorbonne at Paris; from thence he went to Louvain, and continued abroad till the ycar 152). On his return to Cambridge, he was chofen under treafurer of the univerfity; and, in 1533 , was elected ferior proctor. He afterxards proceeded bachelor of divinity, and was chofen chaplain of the univerfity, otator, and masylet glomeric. At this time he was much admited as a preacher and diiputant. He lolt his kiad uncle in 1536; but was foon afier patroniled by D. Cranmer, archhillop of Cantcrbury, who made him his domeltic chaplain, and prefented hinn to the vicarage of Ifcrue in Laft Kent; wherc, we are told, he preached the doctrine of the Reformation. In 1540, having commenced doctor of divinity, he was made king's chaplain; and in the fame year, ras elected mafter of his college in Cambridge. Soon after, Ridley was collated to a prebend in the church of Canterbury; and it was not long before he was acculed in the bifthop's court, at the inuligation of Bithop Gardiner, of preaching againft the doctrine of the Six Articles. The matter being referred to Cranmer, Ridley was acquitted. In 1545 , he was made a prebendary of Weitminfter abbey; in 1547 was prefented, by the fellows of Pembroke- bail, to the living of Solam, to the diocele of Nontich; and the fame year was confecrated bithop of Rochciter. In 15;0 he was tranflated to the fee of Loardon; in which year he was one of the commifioners for examining Bihop Gardiner, and concurred in his deprivation. In the yeaz 1552, our prelate returning from Cambridge, unfortunately for himfelf, paill a vilit to the Princels, afterwari: Qtieen Mary; to whom, prompted by his zeal for retormation, he expreffed limielf with too much freedom: for the was fcatcely feated on the throne when Ridiey was doomed a victim to her revenge. With Cranmer and Latimer he was burnt alive at $\mathrm{O}_{\mathrm{a}}$ ford, on the r 6 th of October 1555. He wrote, 1. A treatie concerning images in churches. 2. Brief declaration of the Lord's Supper. 3. Certain godly and comfortable conferences between Bifhop Ridley and Mr Fiugh Latiner, during their imprifonment. 4. A comparifon between the comfortable doctrine of the Gofpel and the traditions of the Popilh religion; and other works.

Ridley, Dr Glefer, was of the fame family, with the preceding. He was born at fea, in the year i 702 , on board the Gloucefter Ean Indiaman, from which circumitance he obtained his Clriflian name. He was educated at Wanchefter fchool, and afterwards obtained a fellow Chip ar New College, Oxford. He paid his court to the inufes at an carly period, and laid the foundation of thofe folid and elegant acquifitions which afterwards dittinguifhed him fo eminently as a divine, hiltorian, and poet. During a vacation in 1728 , he joined with fout friesids in compofing a tragedy called " The Fruitlefs Redrefs," each undertaking an act agreeatly to a plan which they had previoufly concerted. It was offered to Mr Wiikes, but never acted, and is fall in manulcript. Dr Ridley in his youth was ex. tremely a:tached to theatrical pefformances. The liedrefs, and another called Jugurtha, wete exbibited at Midhurft in Suffex, and the acjurs were chiefly the gen-
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Ridley themen who affitted him in their compofition. We are II. informed that he played Mark Anthony, Jaffier, HoRienzi. $\xrightarrow{\sim}$ ratio, and MIonefes, with very great applatie, which may be zeadily inferred from his graceful manner of fpeaking in the pulpit.
, During a great past of his life he had only the fmall college living of Weftow in Norfolk, and that of Poplar in Middlefex, which was the place of his refidence. His college added to thefe fome years after, the donative: of Ramford in Effex, which left him little or no time for what he confidered as the neceffary fludies of his profeffion. Yet in this fituation he remained in the poffeflion of, and fatisfied with domeftic felicity, and enjoyed the intimate friendinip of fome who were equally dittinguifhed for worth and learning.

The eight fermons which he preached at Lady Moyer's Lecture in 1740 and ${ }^{1} 741$, were given to the public in 1742. In the year 1756 he was invited to go to IreAand as firt chaplain to the duke of Bedford, but declined to accept of it. In the year 1763 he publifhed the life of Bifhop Ridley, in 4 to, by fubfcription, from the profits of which he was enabled to purchafe 8001 . in the public funds. In the concluding part of his life he loft both his fons, who were young men of confiderable abilities. The elder, called James, was author of Tales of the Gcnii, and fome other literary performances; and lis brother Thomas was fent as a writer to Madras by the Eaft India Company, where he fuddenly died of the fmall pox. In the year ${ }_{1765}$ Dr Ridley publifted his review of Philips's Life of Cardinal Pole; and as a reward for his labours in this controverfy, he was prefented, in 1768, by Archbifhop Secker with a a rich prebend in the cathedral church of Salifbury; the cnly reward he received from the great during a long and ufeful life. He was at laft worn out with infirmities, and died in 1774 , leaving behind him a wife and four daughters. By his elegant epitaph, written by Bihhop Lowth, we are informed that the univerfity of Osford, for his merits, conferred upon him the degree of D. D. the higheft literary honour which that learned bedy has to bettow.

RIENZI, Nicholas Gabrini de, one of the moft fingular characters of the $14^{\text {th }}$ century, was born at Rome, but it is not certainly known in what year. His father, as fome affirm, was a vintner, but a miller according to others, and his mother was a laundrefs, yet they fuund means to give their fon a liberal education; and to a fine netoral underftanding he added uncommon application. Hc was well acquainted with the laws and cuftoms of nations; and had a vaft memory, which enabled him to retain much of Cicero, Valerius Maximus, Livy, the two Senecas, and in particular Cæfar's Commentaries, which he conflantly perufed. This extenfive erudition proved the foundation of his future rife. He acquired the reputation of a great antiquarian, from the time he fpent among the inficriptions which are to be found at Rome, and thefe infpired him with exalted ideas of the liberty, the grandeur, and juftice of the old Romans. He even perfuaded himfelf, and found means to perfuade others, that he fhould one day be the reftorer of the Roman republic. The credulity of the people was powerfully encouraged and ftengthened by his advantageous lature, by the attractions of his countenance, and by that air of confequence whioh he could affume st pleafure. The joint energy of all thefe prepoffeffing
qualities made a deep and almoft indelible intpreffion Rienzi, on the minds of his hearers.

Nor was his fame merely confined to the vulgar, for he even ingratiated himfelf into the geod opinion of many diftiuguifhed perfonages belonging to the edminiftration. The Romans chofe him one of their deputies. to Pope Clement VI. then at Avignon, the purport of whofe mifion was to perfuade his holinefs, that his abfence from the eapital was inimical to its intereft. His commanding eloquence and gay converfation charmed the court of Avignon, from which Rienzi was encouraged to tell the Pope, that the greal men of Rome were public thieves, robbers, adulterers, and profligates, by whofe example the moit horrid crimes were fanctioned. This ill-timed freedom of fpeech made Cardinal Colonna his enemy, though the friend of genuine merit, becaufe be thought that fome of his family were abufed by fuch a thundering philippic, in confequence of which Rienzi was difgraced, and fell into extreme mifery, vexation, and ficknefs, which, by being united with indigence, brought him to an hofpital. But as the cardinal was compaffionate, the offender was again brought before the Pope, who being informed that Rienzi was a good man, and the ftrenuous advocate of equity and jultice, gave him higher proofs of his efteem and confidence than before, He was appointed apoftelic notary, and fent back to Rome loaded with the effects of papal munificence.

The functions of this office he executed in fuch a manner as to become the idol of the people, whofe affections he laboured to fecure by exclaiming againft the vices of the great, rendering them as odious as poffible, for which imprudent liberties be was difmiffed from office. In this fituation of his affairs he endeavoured to kindle and keep alive in the minds of the people a zeal for their ancient liberties, difplaying emblems of the ancient grandeur and prefent decline of the city, accompanied with harangues and many expreffive predictions. Such an intrepid, and at the fame time extraordinary conduct, made fome regard him as a lunatic, while others hailed him as their guardian and deliverer. When he fuppofed that the numbers attached to his interef were fufficiently ftrong, he called them together, and gave them a difmal picture of the ftate of the city, overrun with debaucheries, which their governors had no capacity either to correct or amend. He declared that the Pope could, even at the rate of fourpence, raife 100,000 florins by firing, an equal fum by falt, and as much more by the cuftoms and other duties, infinuatirg that he did not feize on the revenues without the confent of his Holinefs.

This artful lie fo powerfully animated his hearers, that they fignified their determination to fecure thefe treafures for whatever purpofes might be moft convenient, and that to his will they would chearfully devote themfelves. This refolution he caufed them confirm by an oath, and it is faid that he had the addrefs to procure from the Pope's vicar the fanction of his authority. On the 20th of May be pretended that he did nothing but in confequence of the particular infpiration of the Holy Ghoft, and about nine o'clock he came out of the church with his head bare, attended by the Pope's vicar, and abeut 100 men in armour. Having proceeded directly to the capital, and declared from the roftrum, with even more than his wonted boldnefs, and energy, that the hour

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Rienzi. of their emancipation was at length arrived; that he R-VM himfelf was to be their glorious deliverer, and that he poured contempt on the dangers to which he might be expofed in the fervice of his Holinefs, and for the hap. py deliverance of the people. The laws of the " good eftablihment" were next ordered to be read; and he refted affured that the Romans would refolve to obferte thefe latws, in confequence of which he pledged himfelf to re-eftablish them in a fhort time in their ancient grandeur and magnificence.

Plenty and fecurity were the bleffings promifed by the good eftablifhment, and the humbling of the nobles, who were regarded as common oppreffors. Such ideas filled the people with tranfport, and they became zealoufly attached to the fanaticifm of Rienzi. The muld titude declared him to be fovereign of Fome, to whom they granted the power of life and death, of rewards and ponifhments, of making and repealing laws, of treating with foreign powers, and a full and abfolute authority over all the Roman territories.

Having thus arrived at the zenith of his ambition, he concealed his artifice as much as poffible, and pretended to be extremely averfe to accept of their profered honours, unlefs they would make choice of the Pope's vicar to be his copartner, and find means to procure the fanction of the Pope himfelf. His wifh to have the vicar (bilhop of Orvieto) as his copartner was readily complied with, while all the honours were paid to Rienzi, the duped bifhop enjoying but a mere nominal authority. Rienzi was feated in his triumphal chariot, and the people were difmiffed, overwhelmed with joy and expectation. This ftrange election was ratified by the Pope, although it was impoffible that he could inwardly approve of it; and to procure a title exclufive of the prerogative of his Holinefs, was the next object of Rienzi's ambition. He fought, therefore, and readily obtained the title of magiftrate, which was conferred on him and his coadjutor, with the additional epithet of deliverers of their country. The conduct of Rienzi immediately fubfequent to this elevation jultly procured him efteem and refpeet, as well from the Romans as from neighbouring ftates; but as his beginning was mean and obfcure, he foon became intoxicated with his fudden, his extraordinary elevation, and the incenfed nobles having confpired againft him, and fuccefsfully drove him from an authority which he had the prudence or addrefs to retain not more than fix months. At this critical period his life was only preferved by fligbt, and difguifes to which he had afterwards recourfe.

Having made an ineffectual effort at Rome to regain his authority, he went afterwards to Prague, to Charles king of the Romans, in confequence of which rafh ftep he tras thrown into prifon at Avignon, where he continued for three years. When he procured his enlargement, Pope Innocent IV, who fucceeded Clement, well knew that many of the Romans were fill attached to Rienzi, and therefore lie made choice of him as a fit object for affifting him in his defign of humbling the otber petty tyrants of Italy. In fhort, he was fet at liberty, and appointed governor and fenator of Rome. It was hoped that his chaltifement would teach him more mol deration in future, and that gratitude would induce him to prelerve an inviolable attachment to the holy fee du. ring the remainder of his life. He met with confiderable oppofition in affaraing his new'authority, but con-
ning and refolution enubled him to dvercome it. Bat Rienzi gratifying his paffions, which were violent in the extreme, and difgracing tis office and character by acts of cruelty; he was murdered on the 8th of Octuber 3354 .

Thus died Nicolas Rienzi, one of the moft extraordinary characters of the age in which he-lived; who, liaving formed a confpirary big with extravagance, and carried it into execution nearly in the face of the whole world, with fuch remarkable fuccefs as to become fovereign of Rome; having bleffed the Romans with plenty, liberty, and juftice; having afforded protection to fome princes, and proved a terror to others ; having become the arbicr of crowned heatls, eftablifhed the ancient majefly and power of the Roman republic, and filled all Enope with his fame; finally, having procured their fanction whofe authority he had ufurped in oppofition to their interefts; he fell at laft a lacrifice to the nobles whofer ruin he had vorved, and to thofe valt projects, the execution of which was only prevented by his death.

RIFLE, in Gunnery. Sce Gunnery, $n^{\circ} 36$, et feq.
RIGA, a large, Itrong, populuus, and rich town of the Ruffian empire, and capital of Livonia. It is a large trading place, and has a very confiderable fortrels; the trade is chietly in corn, fkins, leather, and naval ftores. It was taken by the Ruffians in 1710 , after they had blocked it up a long while, during which the inhabitants were afflicted with the plague. The caftle is fuare, and defended by four towers and fix baftions; befides which, it has a fine arfenal. The proteftants have ftill a handfome college here. The population is computed at 27,000 . It is feated on a large plain on the river Dwina. E. Long. 24. 25. N. Lat. 57. 0.

RIGADOON, a gay and brik dance, borrowed originally from Provence in France, and performed in figure by a man and woman.

RIGGING of a SHIP, a general name given to aldthe ropes employed to fupport the mafts, and to extend or reduce the fails, or arrange them to the difpofition of the wind. The former, which are ufed to fuftain the mafts, remain ufually in a fixed pofition, and are called flanding rigging; fuch are the fhrouds, ftays, and backflays. The latter, whofe office is to manage the faile, by communicating with various blocks or pulleys, fituated in different parts of the mafts, yards, fhrouds, \&c, are comprehended in the general term of running rigging; fuch are the braces, fheets, haliards, cluc-lines, brails, \&zc.

In rigging a maft, the firit thing ufually fixed upon its head is a circular wreath or rope, called the gramet, or collar, which is firmly beat down upon the top of the hounds. The intent of this is to prevent the flrouds from being fretted or worn by the trefle-trees, or fhoulders of the malt; after this are laid on the two pendants, from whofe lower ends themain or fore tackles are fufpended; and next, the fhrouds of the Itarboard and larboard fide, in pairs, alternately. The whole is covered by the liays, which are the largen roies of the rigging.-When a yard is to be rigged, a gromet is alfo driven firlt on each of its extremilies; next to this ate fitied or the hories, the braces, and lattly the lifts of top-fail flieet-blocks.

The principal objects to be conficered in rigejing .a Ahip, apFar to be firength, convenience, and firaplioity.: or, the properties of affording fufficient lecurity to the mafts, yards, and.fails; of arranging the whale machi-

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$\pi:-1: \therefore$ $\xrightarrow{4}$ nery in the moft advantageous manner, to fuftain the mats, and facilitate the management of the fals; and of avoiding perplexity, and rejecting whatever is fuperfluous or unneceflary, The perfection of this art, then, confifts in retaining all thofe qualities, and in preferving a judicious medium betrreen them. See Ship building.

RIGHT, in Geometry, fignifies the fame with ftraight; thus, a ftraight line is called a right one.

Rignt is a title conferred, 1. Together with Reverend, upon all bifhons. 2. Together with Honourable, upon earls, rilcounts, and barons. 3. By courtefy, together with Honourable, upon the fons of dukes, marquiles, and the eldett fons of earls. 4. Together with Honourable, to the fpeaker of the houfe of commons; but to no oher commoner excepting thofe who are members of his maielty's molt honourable privy-council ; and the three lod mayors of London, York, and Dublin, and the lord piovelt of Edinburgh, during their office. See Honctr. ble and Provost.

Herediary Right. See Hereditary.
The term right explained.

* See Reccitude.

Right is a word which, in the propriety of the Englifh language. is ufed fometimes as an adjective and fometimes as a fubtrantive. As an adjective it is nearly of the fame inport with fit, fuitable, becoming, proper; titude. Thus, when we fay that an action is right, we mult not only know the nature of the action, but if we feak intelligibly, muft alfo perceive its relation to the end for which it was performed; for an action may be right with one end in view which would be urong with another. The conduct of that general would be right, who, to fave an army that could not be otherwiie faved, fhould place a fmall detaclment in a flation where he knew they would all be ineritably cut off; but his conduct would be very wrong were he to throv away the life of a fingle individual for any purpofe, however important, which he knew how to accomplifh without fuch a facrifice.

Many philofophers have talked of actions being right and wrong in the abftract without regard to their natural confequences; and converting the word into a fubflantive, they have fancied an eternal rule of reikt, by which the morality of human conduct is in every par icular cafe to be tried. But in thele phrafes we can dif. cover no meaning. Whatever is right mult be fo on fome occount or other; and whatever is fit, mult be fit for fome purpofe. When he who refts the foundation of virtue on the morat fenfe, fpeaks of an action being right, he muft mean that it is fuch as, through the medium of that fenfe, will excite complacency in the mind of the agent, and gain to him the general approbation of mankisd. When he who refts moral obligation on the will of God, Speaks of fome actions as right and of others as wrong, he mult mean that the former are agreeable to the divine will, however made known to men, and the latter difagreeable to it ; and the man who deduces the laws of virtue from what he calls the fitmefs of things, mult have fome end in view, for which things are fit. and denominate actions right or wrong as they tend to promote or counteract that end.

But the word right, ufed as a fubftantive, has in comnoon as well as in philofophical language a fignification which at firft view appears to be very different from this. It denotes a juf claim or an honef pofrcfion. Thus we fay, a father has a right to reverence from his children, a
hufband to the lore and fidelity of his vife, and a king
to the alle giance or his fubjecis. But if we trace theie rights to their tource, we tuall find that they are all laws of moral obligation, and that they are called rights only becaufe is is agreeable to the will of God, to the infinctive dictates of the moral fenfe, or to the fitnels of things, if fuch a phrale has any meaning, that chuldren reverence their parents, that wives love their huibands, and that fubjects pay allegiance to their foverengr. This will be apparent to any man who thall put to himidelf fuch queilions as thele : "Why have parents a right to reverence from their children, hufoands to the love of their wives, and fovereigns to the allegiance of their fubjects?" As thefe queilions contain in them nothing abfurd, it is obvious that they are each capable of a precife anfwer ; but it is impefiible to give to any of them an anfwer which fhall have any meaning, and not imply that right and obligation are reciprocal, or, in other words, that wherever there is a right in one perfon, there is a correfponding obligation upon others. Thus to the queftion, "Why have parents a right to reverence from their children ?" it may be anfuered, "tecaufe, under God, they were the authors of their children's being, and protected them from darger, and furnifhed then with neceflaries, when they were in a fate fo helplefs that they could do nothing for themfelves." This anfwer conveys no other mearing than that there is an obligation upon children, in retarn for benefits received, to reverence their patents. But what is the fource of this obligation ? It can only be the will of God, the moral fenfe, or the finefs of things.
This view of the nature of right will enable us to form a proper judgement of the affertion of a late writer, "that man has no rights." The arguments by which Goodwin's this apparent paradox is maintained, are not merely in-Politicat genious and plaufible; they are abfolutely conclufive. $\mathcal{F u f f l c e}^{\text {. }}$ But thes our philofopher, who never choofes to travel in the beaten track, takes the word right in a fenfe very different from that in which it has been ufed by all other nien, and confiders it as equivalent to difcretionary power. "By the word right (lays he) is underflood a Rights of ${ }^{2}$ full and complete power of eibher doing a thing or man, ornitting it, without the perfon's becoming liable to animadverfion or cenfure from snother; that is, in other words, without his incuring any degree of turpitude or guilt." In this fenfe of the word he affirms, and affirms truly, that a man has no rights, no difcretionary power whatever, except in things of fuch total indifference as, whether "he flall fit on the right or on the left fide of his fire, or dine on beef to-day or to-morrow."

A propofition fo evidently true as this flood not in need of argument to fupport it ; but as his arguments are clearly expreffed, and afford a complete confutation of fome popular errors fanctioned by the refpectable phrafe rights of man, we hlall give our readers an opportunity of fludying them in his own words.
"Political fociety is founded on the principles of morality and juftice. It is impoffible for intellectual beings to be brought into coalition and intercourfe without a certain mode of conduct, adapted to their nature and connection, immediately becoming a duty incumbent on the parties concerned. Men would never l:ave affociated if they had not inmagined that. in confequence of that afiociation, they wowld mutvally

## n I G [ ir ] R I G

Rithet conduce to the advantage and happinets of each other. This is the real purpole, the genuine bais, of their intercourle; and, as far as this purpofe is antwered, to far dues fociecy anfwer the end on its inltitution. There is only one poitulate nore that is necefiary to bring us to a conclutive mode of realoning upon this linbject. Vriatever is meant by the cerm righlt, there can neither be oppofite rights; nor Lights and dutics holtile to each ether. The rigats of one man cannot clafh with or be detrustive of the rights of another: for this, inftead of rendering the bu.jest an important branch of truth and vorality, as the divocates of the rights of man certainly underitand it to be, weuld be to reduce it to a heap of unintelligi le jargon and inconfintency. If one min tave a right to be iree, another man cannot have a right to make bin a fave; if one man lave a right to inflict chatitement upon me, I cannot have a right to withdras myfelt from chattilement; if my neighbour have a right to a lum of money in my pofiefion, I cannot have a right to retain it in my pocket. It cannot be lets incontroverible, that I hase no right to omit what my duty prefcribes. From hence it inevitably follows that men have no rights.
"It is commonly fiid, "that a man lias a right to the difpofal of his fortune, a right to the employment of his time, a right to the uncontrolled choice of his profeffion or purfuits.' But this can never be confiftently affirmed till it can be thown that ho has no duties, preforibing and limiting his moxie of procteding in all thefe reípects.
" In reality, nothing can appenr more wonder ful to a careitul inquiver, than that two ideas fo iacompatible as man and righits thould ever have been affocia ed together. Certain it is, that cize of them muft be utterly excluSive and amililatory of the oiber. Before we afcribe rights to man, we muit conceive of him as a $t=i n g$ endowed with intellect, and capable of difcerning the differcaces and tendencies of things. But a being endowed with intellect, and cipable of difcerning the diferences and terdencies of things, inftartly becomes a moral being, and bas 3uties incumbent on him :n difcharge : and duties and rights, as has already beea thown, are ablolutely eaclufive ol each other.
" It has been affirmed by the zealous advocates of liberty, 'that princes and magitrutes bave no rights;" and no pofition can be more incontrovertible. There is no fituation of their lives that has not its correfpondent duties. There is no power intrufted to theme that they are not bound to evercife exclufively for the public good. It is ftrange, that perfons adopting this principle did not go a itep farther, and perceive that the fame reftrictions were applicable to fukjects and citizens."

This reafoning is unanfwerable; but it militates not againtt the righes of man in the ufual acceptation of the words, which are never employed to denote difcretionary power, but a juft claim on the one hand, implying a correfponding obligation on the other. Whether the phrale te ablolutcly proper is not worth the debating : it is authorifed by cufiom-the jus el norma loquendiand is univerfally underfood except by fuch as the dremons of faction, in the form of paradosical writers on political juftice, have been able to miflead by fophiftical realonings.
$R g$ hits, in the common acceptation of the word,
are of various kinds: they are naturai or ado ntt.ucus, Rigit. alienable or unalienable, perfect or imperfict, particular or generzl. See the artic'e Liberti.

Acatural rights are thofe which a man has to his Natural lite, limbs, a id liberty; to the projuce of his perional rights. labour; to the ufe, in common with others, of air, light, and water, \&e. That every man has a natural right or jutt c'atim to thefe things, is evident tion their Leing ablulutely neccflary to enable him to anliver that fur1, whe, whatever it may be, for which he was made a living and a rational being. Ihis thows undeniably, that the Author of his nature defigned that he llouid have the ufe of them, and that the man who theuid wantonly deprive him of any one of them, would be guilty of a breach of the divine law, as well as act inconfiftently with the finefs of things in every fenfe in which tbat phra'e can polifibly be undenitood.
Advemitrous rights are thofe which a king has over Adventihis fuljects, a general orer his foldiers, a hulband to the rious perfon and affections of his wife, and which every man rights. has to the greater part of his property. That the rights of the king and the general are adventitious, is univerfally admitted. The rights of property have been confidered eifenhere (fee Property) ; and though the human confitution fhows fufficiently that men and women have a natural right to the ure of each other, yet it is evident that the exclufive right of any one man to any one woman, and vice verfa, muft be an adventitious righat: But the important queltion is, Hovv are adventitious rights acquircd ?
In anfwer to this queftion, the moralit who deduces How arquie the laws of virtue from the will of God, oblerves, that ted. as God appears from his works to be a beacvolent Be ing, who wills the happinefs of all his creatures (fee Metaphysics, $\mathfrak{N}^{\circ} 312$.), he muft of courfe will every thing which naturally tends to promote that happinefs. But the exifence of civil fociety evidently contributes in a great degree to promote the fum of human happinels (lee Socility) ; and therefore whatever is neceffary for the fupport of civil fociety in general, or for the conduct of particular locieties already eftablithed, muit be agrecable to the will of God: But the allegiance of futjects to their fovereign, the ohedience of foldiers to their leader, the protection of private property, and the fulfilling of contracts, are all abfolutely necedary to the fupport of fociety: and bence the rights of kinge, generals, husbands, and wives, \&c. though adventitious, and immediately derived from human appointments, are not leis racred than natural rights, fince they may all be ultimately traced to the lame fourcc. The fame conclufion may eafily be drawn by the philofopher, who refts moral obligation on the fitnefs of things or on a moral fenie ; only it mult in each of thefe cales partake of the inftability of its foundation.
To the facrednefs of the rights of marriage, an au-Objections thor alieady quoted has lately urged fome declamatory to tome of: objections. "It is abfurd (lays he) to expect, that theie the inclinations and wifhes of two human beings fhould rights. coincide through any long period of time. To oblige them to act and to live logether, is to fubject them to fome incvitable portion of thwarting, bickering, and unhappinefs. This cannot be otherwife, fo long as man has failed to reach the ftandard of abfolute perfection. The fuppofition that I mult have a companiont

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Right. for life, is the refult of a complication of vices. It is the dietate of cowardice, and not of fortitude. It flows from the defire of being loved and elteemed for fomething that is not defert.
"But the evil of marriage, as it is prasifed in European countries, lies deeper than this. The habit is, for a thoughtefs and romantic youth of each fex to come togelher, to fee each otber for a few times, and under circumfances full of delufion, and then to vow to encil other eternal attachnent. What is the confequence of this? In almoft every inftance they find themfelves deceived. They are reduced to make the beft of an irretrievable miftake. They are prefented with the ffrongeft imaginable temptation to become the dupes of falfehood. They are led to conceive it their wifert policy to thut their eyes upon realities; happy if by any perverfion of intelleat they can perfuade themfelves that they were right in their firf crude opinion of their companion.
"So long as two human beings are forbidden by pofitive inftitution to follow the dictates of their own mind, prejudice is alive and vigorous. So long as I Seck to engrofs one woman to myfelf, and to prohiluit my neighbour from proving his fuperior defert and reaping the fruits of it, I am guilty of the moft odious of all monopolies. Over this imaginary prize men ratch with perpetual jealonfy; and one man will find his defires and his capacity to cireumvent as much excited, as the other is excited to traverfe his projects and fruftrate his hopes. As long as this ftate of fociety continues, plilanthropy will be croffed and checked in a thoufand ways, and the ftill augmenting ftream of abufe will continue to flow.
"The abolition of marriage will be attended with no evils. The intcrcourfe of the fexss will fall under the fame fyftem as any other fpacies of friendihip. Exclufively of all groundlefs and obflinate attachments, it will be impoffibie for me to live in the world without finding one man of a worth fuperior to that of any other whom I have an opportunity of obferving. To this man I fhall feel a kinduefs in exact proportion to my apprehenfion of his worth. The cafe will be precifely the fame with refpect to the female fex; I fhall affiduoully cultivate the intercourfe of that woman whofe accomplifiments flaill frike me in the moit powerful manner. 'But it may happen that other men will feel fur her the fame preference that I do.' This will create no difficulty. We may all enjoy her converfation; and we thall all be wife enough to confider the lenfual intercourfe as a very trivial object. This, like every other affair in which two perfons are concerned, inuft be regulated in each fucceffive inflance by the unforced confent of either party. It is a mark of the extreme depravity of our prefent habits, that we are inclined to fuppofe the fenfual intercourfe anywife material to the advantages arifing from the pureft affection. Keafonable men now eat and drink, not from the love of pleafore, but becaufe eating and drinking are effential to our healthful exitence. Reafonable zaen then will propagate their fpecies, not becaufe a ceitain fenfible pleafurc is annexed to this action, but becaule it is right the fpecies flould be propagated; and the manner in which they exercife this function will be regulated by the dietates of reafon and duly."
that the fpecies fhould be propagated, and reafonable men in his Utopian commonwealth would be incited by reafon and duty to propagate them : but the way to fulfil this duty, experience, which is feldom at one with fpeculative reformation, has already demonftrated, not to confift in the promicuous intercourfe of feveral men with one woman, but in the fidelity of individuals of the two fexes to each other. Common proltitutes among us feldom prove with child; and the fociety of Arreoys in Otaheite, who have completely divefted themfelves of what our author calls prejudice, and are by no means guilty of his mof odious of all monopolies, are for the moft part childlefs (lee Otaheite). He feems to think that a ftate of equal property would neceffarily deftroy our relilh for luxury, decreafe our inordinate appetites of every kind, and lead us univerfally to prefer the pleafures of intellect to the pleafures of fenfe. But here again experience is againf him. The Arreoys, who have a property in their women perfectly equal, are the moft luxurious and fenfual wretches on the face of the earth; fenfual indeed to a degree of which the moft libidinous European can hardly form a conception.

By admitt?ng it to be a duty to propagate the fpecies, our author muft neceffarily grant that every thing is right which is requifite to tbe fulfilling of that duty, and the contrary wrong. Iffo, promilcuous concubinage is wrong, fince we have feen, that by a law of nature it is incompatible with the duty; whence it follows on his own principles, that the fexual union by pairs mult be right. The only queftion therefore to be decided between him and his opponents is, "Whether fhould that union be temporary or permanent ?" And we thiuk the following obfervations by Mr Paley fufficient to decide it to the conviction of every perfon not blinded by the rage of innovation.
" A lawgiver, whofe counfels were direcied by views of general utility, and obitructed by no local impediments, would make the marriage-contract indifoluble during the joint lives of the parties, for the fake of the following advantages: Such an union tends to preferve peace and concord between married perfons, by perpeiuating their common intereft, and by inducing a neceffity of mutual compliance. An earlier termination of it would produce a feparate intereff. The wife would naturally look forward to the difiolution of the partnerfhip, and endeavour to draw to herfelf a fund againtt the time when fhe was no longer to have accefs to the fame refources. This would beget peculation on one fide, and mifrult on the other; evils which at prefent very little difurb the confidence of married life. The fecond effect of making the union determinable only by death, is not lefs bencficial. It neceffarily happens, that adverfe tempers, habits, and taftes, oftentimes mect in marriage. In which cafe, each party muft take pains to give up what offends, and practice what may gratify, the other. A man and woman in lave with each other do this infenfibly: but love is neither general nor durable ; and where that is wanting, no leffons of duty, no delicacy of fentiment, will go half fo far with the generality of mankind and womankind as this one intelligible reflection, that they muft each make the belt of their bargain; and that feeing they mult either both be miferable or both flate in the fame happinefs, neither can find their own comfort but in promoting the pleafure of the other. Thefe compliances, though at firft extorted by neceffity, become in time ealy and mutual ;

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 mutual; and though lefs endearing than affiduities which take their rife from affection, generally procure to the marricd pair a repofe and fatisfaction fufficient for their happinefs."So differently from our author does this judicious writer reafon concerning the effects of a permanent union on the tempers of the married pair. Inftead of fubjecting them to fome inevitable portion of thwarting, bickering, and unhappinefs, it lays them, in his opinion, under the neceffity of curbing their unruly raffions, and acquiring habits of gentlenefs, forbearance, and peace. Jo this we may add, that both believing the children propagated during their marriage to be their own (a belief unattainable by the father in a ftate of promifcuous concubinage), they come by a natural procefs of the human paffions (fee Passion) to love each other through the mediura of their offspring. But if it be the duty of man to acquire a fpirit firft pure, then peaceable, gentle, and eafy to be intreated, it muft be agreeable to the will of God, and a branch of the fitnefs of things, that the fexual union laft during the joint lives of the parties; and therefore the exclufive right of marriage, though adventitious, mult be equally facred with thofe which are natural.

But to return from this digreffion, into which the importance of the fubject led us, rights, befides being natural or adventitious, are likewife alienable or unalienable. Every man, when he becomes the member of a civil community, alienates a part of his natural rights. In a ftate of nature, no man has a fuperior on earth, and each has a right to defend his life, liberty, and property by all the means which nature has put in his power. In civil fociety, however, thefe rights are all transferred to the laws and the magiftrate, except in eafes of fuch extreme urgency as leave not time for legal interpofition. This fingle confideration is fufficient to fhow, that the right to civil liberty is alienable; though, in the vehemence of men's zeal for it, and in the language of fome political remonftrances, it has often been pronounced to be an unalienable right. "The true reafon (fays Mr Paley) why mankind hold in deteftation the memory of thofe who have fold their liberty to a tyrant is, that, together with their own, they fold commonly or endangered the liberty of others; of which they had certainly no right to difpofe." The rights of a prince over his people, and of a hufband over his wife, are generally and naturally unalienable.
perfect and Another divifion of rights is into thofe which are perimperfect. fect and thofe which are imperfect. Perfect rights are fuch as may be precifely afcertained and afferted by force or in civil fociety by the courfe of law. To imperfeet rights neither force nor law is applicable. A man's rights to his life, perfon, and property, are all perfect ; for if any of thefe be attacked, he may repel the attack by inflant violence, punifh the aggreffor by the courfe of law, or eompel the author of the injury to make reititution or fatisfaction. A woman's right to her honour is likewife perfect; for if the cannot otherwife efcape, fhe may kill the ravifier. Every poor man has undoubted right to relief from the rich : but his right is imperfect, for if the relief be not voluntarily given, he cannot compel it either by law or by violence. There is sio duty upon which the Chriftian religion puts a greater value than alms-giving; and every preacher of the gofpel has an undoubted right to jnculcate the practice of it $u_{i}$ on Vol. XVIIL Part I.
his audience: but even this right is imperfect, for he Right. cannot refufe the communion to a man berely on account $\underbrace{\text { Ris }}$ of his illiberality to the poor, as he can to another for the neglect of any duty eomprehended under the term jultice. In elections or appointments to offices, where the qualifications are prefcribed, the beft qualified candidate has unqueftionably a right to fuccefs; yet if he be rejected, he ean neither leize the office by force, nor obtain redrefs at law. II right, therefore, is imperfect.

Here a quellion naturally offers itfelf to our confideration: "How comes a perfon to have a right- to a thing, and yet have no iight to ufe the means neceffary to obtain it ?" The anfwer is, That in fuch cafes the object or the circumftances of the right are fo indeterminate, that the permiffion of force, even where the right is real and certain, would lead to force in other cafes where there exifts no right at all. Thus', though the poor man has a right to relief, who fhall afcertain the mode, feafon, and quantum of it, or the perfon by whom it fhall be adminiftered ? Thefe things muft be afcertained before the right to relief can be enforced by law ; but to allow them to be afcertained by the poor themfelves, would be to expofe property to endle's claims. In like manner, the comparative qualifications of the candidate muft be afcertained, before he can enforce his right to the office; bus to allow him to afcertain his qualifications himfelf, would be to make himjudge in his own caule between himfelf and his neighbuur.

Wherever the right is imperfect on one fide, the cor-Imperfect refponding obligation on the other muft be imperfect like-rights ewife. The violation of it, however, is often not lefs qually facriminal in a moral and religious view than of a perfect thofe which obligation. It is well obferved by Mr Paley, that greater are perfect. guilt is incurred by difappointing a worthy candidate of a place upon which perhaps his livelihood depends, and in which he could eminently ferve the public, than by filching a book out of a library, or picking a pocket of a handkerchief. The fame fentiment has been expreffed by Mr Godwin, but in terms by much too ftrong, and fuch as fhow that he was not at the time complete mafter of his fubject. "My neighbour (fays he) has jult as much right to put an end to my exillence with dagger or poifon, as to deny me that pecuniary affiftance without which I muff ftarve, or as to deny me that affiftance without which my intellectual attainments, or my moral exertions, will be materially injured. He has juft as much right to amufe himfelf with burning my houfe, or torturing my children upon the rack, as to thut himfelf up in a cell, carelefs about his fellow men, and to bide 'his talent in a napkin.?

It is certainly true, that the man who fhould fuffer another to flarve for want of that relief which he knew that he alone could afford him, would be guilty of murder, and murder of the cruelleft kind; but there is an immenfe difference between depriving fociety of one of its members, and with-holding from that member what might be neceffary to cnable him to maks the greateft potible intellectunl attainments. Newton might have been ufeful and happy though he had never been acquainted with the elements of mathematics; and the late celebrated Mr Ferguffon might have been a valuable member of fociety, though he had never emerged from his original condition of a thepherd. The remainder of the paragraph is to abfurd to require a formal confutation.

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- int, Fnd our $\rightarrow 1$, burying his talent in a na, kin, fhut him-
ferf up leven Yurs an ${ }^{\circ}$ in a cell, carelefs a ajout his felios men and $p$.ical $j$.i.e, he weuld have deprived the p- lic of what he coubtieis believes to be much ufe ul inct Etion; but h.d he at that period amued himfelf with bartin his nei, hbur's honfe, and torturing on the rack two or three hididren, he would have cut oif, for any thing he conld klow, two or three furure Newtone, and have hianel' ben out off Is the i: fifled laws of his country. Now, withou! fu phing the value of ten Newt ons to be equal to 1...c of one Godwin, we are warranted to hay, that however great his merits may be, they are not infinite, and that the addition of thofe of one Newton to them woud undoubiedly increate their fam.

Rishts are particular or general. Particular rights are luch as belong to cerrain individuals or orders of men, and not to uthess. The rights of king, of maliers, of humbends, of wives, and, in llort, ail the rights which criginate in fociety, are particular. General rights are thofe which belong to the fpecies collectively. Such are u.r rights to the vegetable produce of the carth, and to the ileth of inimals tor food, though about the origin of this latter rigit the we has been much diverfiny of opizion, which we hate notictd in another place. (See Theozogy, Pari I. f.ef. 2d). If the veretable praluce of the earth be inclucted under the general righis of man!ind, it is plain that he is guilty of wrong who Ieaves any comiderable por, ion of lind watle merely for his own amulem ml : he is lefiening the common flock of provifion whi-b Providence intended to diltribute among the fpecies. On this principle it would not be eafy to vindizate certain regulations refpecting game, as wetl as fome other monopolies which are protected by the municipal laws of mont countries. Mr Paler, by ju fo reafowing, has eitablifhed this conclution, "that noihing ouglit io be made exclufive property which can be cor ut Ently enjoyed in common." An equal divifron of land, however, the dream of fome vifionary reformers, would be injurious to the general rights of mankind, as it may be demonfrated, that it would leffea the common flock of provifions, by laying every man under the neceffity of being his own weaver, tailor, froemaker, fmith, and carpenter, as well as ploughmar, miller, and baker. Among the gencral aights of mankind is the right of neceffity; by which a man may ufe or deftroy his neighbour's property when it is abfolutely neceflary for his own prefervation. It is on this principle that goods are thrown overboard to fave the Thip, and houfes pulled down to fop the progrefs of a fire. In fuch cafes, however, at leaft in the lalt, reftitution ought to be made when it is in our power; but this renlitution will not extend to the original value of the property deftroyed, but only to what it was worth at the time of deftroving it, which, confidering its danger, might be very little.

RIGHTEOUSNESS, means juftice, honeny, virtue, goodrefs, and amongf Chrifians is of exactly the faine import with holineff, without which, we are told, no man thall fee the Lord. The doetrine of the fall, and of redemption through Jefus Chrint, has occafioned much difputation, and given rife to many fingular notions in the world. The haughty philofopher, diffatisfied with mylteries, and with the humiliating doctrine of atonement by a crucifed Sas iour, has made a religion
for himfelf, which he caills rational Chrifizanity; ardi Rightesufe the entiufialt, by extracting cootines irum Seripiure which are not contained in it, andi which are repugnant to its fpirit, has given too much countenaace to this prefirmption. The doctrine of isaputed righteoufinefs, by which the merit of Chrit is taid to be imputed to us, appears to be of this number; and thought it has been held by many good, and by fome leanned men, it is. centainly in gencral unfriendly to virtue, as will be readily allowed by all who have converfed with the more ignorant fort of Niethodits in England or Seceders in Scotland. 1 hat it does not follow from the doctrine of the atonement, and confequendy that it has no foundation in Scripture, will appear elfershere. Sce

## Theology.

Bill of Rights, in Law, is a declaration delivered by the lords and commons to the prince and princefs of Orange, ${ }^{1} 3^{\text {th }}$ February 1658 ; and afterwards enacted in parhament, when they became kiag and queen. It fets forth, that King James vid, by the affilitaice of divers evil counfellors, endeavour to fubvert the laws ar 1 liberties of this kinglom, by exerciling a power of aifpenfing with and tu-perding o: lavs; by levying moic.cy for the ofe of the crown by pretence of presogative withcut confent of parliameut; by profecuting thofe who pelitioned the king, and dilcouraging pectitions; by rain fing and keeping a itanding an my in time of feace; by violating the frcedom of eicelion et members to ferve in pariament; by violent profecutions in the court of king's bench ; and ca: ©ing partial and corrupt jurors to be returned on tuiak, exceflive bail to be taken, excelfive fincs to be impoifl, and cruel puniilimen's imflicted; all which were tectared to be illegnl. And the declaration concludes in theie remarkable words: "Aisi they do clain, demand, and infiit upor, all and fingular the premifes, as their undoubted rights and liberties." And the att of parliament itfelf (1 W. and M. atat. 2. cap. 2.) recognizes " all and fingular the rights and liberties, afferted and claimed in tie faid declaration, to be the true, ancient, indubitable rights of the people of this kingdom." See Liberti.

RIGIDITY, in Plysies, denotes a britle hardnefs. It is oppofed to ductility, malleability, and foftnefs.

RIGOLL, or Regaes, a kind of mufical inftument, confifting of feveral ficks bound together, only feparated by beads. It is tolerably hammonious, being well fruck with a ball at the end of a alick. Such is the account which Grafineau gives of this infrumerit. Skinner, upon the autliority of an old Englifh diatiosiary, reprefents it as a clavichord, or claricord; pofibly founding his opinion on the sature of the cllice of the tuner of the regals, who fill fubfints in the etinbiifhment of the king's chayel at St James's, and whole butinets is to keep the organ of the chapel royal in tane; and not knowing that fach wind inftruments as the organ need frequent tuning, as well as the clavictord and other ftringed inftruments. Sir Henry Spelman derives the word rigoll from the Italian rigabello, a mulical inflrument, anciently u.ed in churches inflead of the organWalcher, in bis defcription of the regal, makes it to be a reed-work in an organ, with metai and alfo wooden pires and bellows adapted to it. And he adds, that the name of it is fuppofed to be owing to its laving bees prefented by the inventor to fome king.-From an ac-

## R I AN $\left[\begin{array}{llll}35 & \text { R I } 0\end{array}\right.$

2Rigoll
$\stackrel{4}{4}$
count of itio regal ufed in Germasiy, and other parts of Europe, it appears to confitt of pipes and key; on one fide, and the beilows and wied-cheat on the other. Wie may add, that Lord Bacon (Nat. Hift. cent, ii. § 102.) diiltinguidhes between the regal and organ, in a manner which flows tinem to be intiruments of the fame clafs. Upon the whole, there is realun to conclude, that the regal or rigoll was a pneomatic, and nut a Itringed inftrwent.

Nerfernus relates, that the Flemings invented an inffrument, Les regales de bois, confiting of 17 cylindrical pieces of wood, decrealing gradually in length, fo as to produce a fucceffion of tones and femitones in the diatonic feries, which had keys, and was played on as a fpinet; the hint of which, he fays, was taken from an inilrument, in wie among the Turks, confifting of 12 wooden cylinders, of different lengths, firung together, which being fuipended and ftruck with a ftick, having a ball at the end, proluced mufic. Hawkins's Hitt. Muf. vol. ii. p. 449.

RIGOR, in Medicine, a convalive fuuddering from fevere cold, an ague fit, or other diforder.

RINIINI, an ancient, populous, and handfome town of Italy, in Romagna, which is part of the territory of the church, with a bifhop's fee, an old caltle, and a frong lower ; as alfo many remains of antiquity, and zery fune builaings. It is famous for a council in 1359 , confifting of 400 bilhops, who were all Arians except 20. It is feated in a fertile plain, at the mouth of the siver Mareccbia, on the gulf of Venice. E. Long. 12. 39. N. Lat. 44.6.

RIND, the \&kin of any fruit that may be cut off or pared. Rind is allo ufed for the inner bark of trees, or that whiting folt fubitance which adheres immediately to the wood. Sie Plant.

RING, an ornament of gold and filver, of a circular figure, and ufually worn on the finger.

The epifcopal ring (which makes a part of the pontifical apparatus, and is eftcemed a pledge of the fipiritual marriage between the bifhop and his church) is of very ancient fanding. The fourth council of Toledo, held in 633 , appoints, that a bifhop condernned by one council, and found afterwards innocent by a fecond, flalll be reitored, by giving lim the ring, ftaff, \&c. From bihops, the cuftom of, the ring has paffed to cardinals, who are to pay a very great fum pro jure annuli cardinalitio.

Ring, in Navization and Afronomy, an inftrument made wie of for taking an altitude of the fun, \&c. It is commonly of brafs, about nine inches in diameter, fufpended by a fmall fwivel, at the ditance of $45^{\circ}$, from the point of which there is a perforation, being the centre of a quadrant of $90^{\circ}$ divided in the inner concave furface. It is to be held up by the fwivel when ufed, and turned roond to the fun, till his rays, falling through the hole, form a fot among the degrees, by which the required altitude is poinied out. This inftrument is deemed preferable to the aftrolabe, becaufe the divifions are larger than on that inftrument.

RINGS. The antiquity of rings is known from Scripture and profane authors. Judah left his ring or fignet with Tamar (Gen. xxxviii. 18.). When Hharaoh committed the government of all Egypt to Jufeph, he took his ring from his finger, and gave it to Jofeph (Gen. xli. 42.). After the victory that the Ifraciites
obtained over tik Midianites, they offired to ti:e Lu 1 the rings, the braceluts, and the golden necklaces, and the ear-rings, that they had taken from the enemy (Numb. xxai. 50.). ' 1 lie Ifrachitifh women ware rings Rin de jan is. not only on their fingers, but alto in their nontrils and their ears. St James ditingtithes a man of weakh mad dignity by the ring of gold that he wore on his finges (James ii. 2.). At the return of the prodigal fon, his tather orders him to be dreffed in a new fuit uf clothes, and to have a ring put upon his finger (Luke xv. 22. . When the Lord threatened King Joconiah with the utmott effechs of his anger, he tells him, that though lee wore the fignet or ring upon his finger, yet lee floould be torn off (Jer, xxii. 24.).

The ring was ufed chietly to feal with; and the Seripture generally puts it in the hands of princes and great perfons; as the king of Egypt, Jufeph, Ahaz. Jozebel, King Ahaluerus, his favourite Human, MIordecai, who fucceeded Haman in his dignity, King Darius (1 Kings xxi. 8.; Etither iii. 10, \&ic.; Dan, vi. If. . The patents and orders of thefe princes were fealed with their rings or fignets; and it was this that fecured to them their authesity and refpect. See the articie Seal.

Rivg-Bone. See Farriery Index.
Ring-Oufel, a fpecies of Turdus. See Ornithology Indox.

RIO-GRANDE, a river of Arica, which runs from eaft to weit through Negroland, and falls into the Atlantic ocean, in 11 degrees of latitude. Some take it to be a branch of the Niger, of which there is not the leaft proof.

RIO dE Janeiro, the name of one of the provinces into which Brazil, the Portuguefe portion of Suuth America, is divided, and by far the moti important, in confequence of the difcovery and improvement of the gold and diamond mines aboat 300 miles to the northwelt. The diamond mines are the exclufive property of the crown, as well as a fifth part of the gold. The people have of late begun to manufacture many necellary articles for their own confumption. The foil is luxuriant, producing fpontaneoufly moft kinds of fruit ; and the ground is covered with one cottinued forcft of trees of perpetual verdure, which, from the exuberance of the foil, are fo entangled with briars, thorns, and underwood, as to form a thicket ab!olutcly impenetrable, except by fome narrow foot paths, which the inhabitants have made for their own convenience. The woods arc extremely fragrant, frum the many aromatic trees and nurubs with which they abound; and the fruits and vegetables of every climate thrive here alnoft without culture, and are to be procured in great abundance. The water is excellent; fud among the ordinary productions of this richelt province of Brazil may be ranked cotton, fugar, cofice, cucoa, wheat, rice, pepper, and abundance of tobacco. Vines are here met with in great perfection, but the grapes are not preffed for the purpofe of obtaining wine. Gold, filver, and precious ftones, are annually exported by the Portuguefe, whoie indolence, efpecially with refpect to inveftigation and reicarch, has prevented them from giving to the world any fatisfactory accounts conceming thofe remote regions which are fubject to their authority.

Rio de Janeiro, or St Sebafian, an extenfive city, the metropolis of the foregoing province of Brazil, and 'the fee of a biflop. It has a very extenfive and commodiE 2

R'ig de Ja- eus hazibeurs, which is defended by a number of forts. $\xrightarrow{4}$ The city is builtupon ground which is rather low, and was at pre period, of /a livampy nature ; it is environed by hills. which exclude in agrent meafure the advantages of freth air, both from the land and the fea, on which account the fummers are inimical to health, the heat being almoft fuffocating. The different mechanics carry on their refpective branches in diffinct parts of the town, particular trades having particular freets affigned to them. The viceroy's palace is erected on the fide of an extenfive fquare; and there are fountains in different other fquares, to which an aqueduct of confiderable ?ength conveys water over valleys by a double row of arches. On the extreme point are a fort called Santa Cruz, built on a prodigious rock of granite, and a Benediftine convent, jutting into the harbour, oppofite to which is Serpent illand, where there are houfes for magazines and naval fores, together with a dock-yard. The warehoufes for the reception and preparation of laves from Africa for fale, are in another part of the harbour, known by the name of Val Longo. The city of Rio Janeiro is fituated near the mouth of a river of the fame name in the Atlantic ocean. The ftreets of this city are in general well paved and ftraight. The houfes in general are two flories high, covered with tiles, and have balconies of wood extending in front of the upper Stories; but the beff of them have that dull and heary -appearance which muft neceflarily be the cafe when latliced windows fupply the want of glafs. The rocks in is vicinity are granite, of a red, white, or deep blue colour, the laft being of a compact and hard texture.

Females of rank and diftinction are faid to have fine dark eyes, countenances full of animation, and their heads only ornamented with their trefles, which are bound up with ribbons and fowers. There are numerous convents and monaiteries, and labour is in general ferformed by flaves, 20,000 of which are faid to be annually imported. Rio de Janeiro is a city of very confiderable extent, and the population, including flaves, has been eftimated at 60,000 ; but according to Dr Morfe, at no fewer than 200,000, as we find in his American Gazetteer, publifhed in $: 798$; yet it appears extraordinary, that in luch a city there is neither inn, nor hotel, hor any fort of accommodation for the reception of flrangers. Such accommodation, however, is fcarcely neceffary, the weak and jealous government being fo inhofpitable, as to prohibit flrangers from remaining on fhore after the going down of the fun, and from walking the ftreets during the day without military fpies.

When Mr Barrow vifited this place, he foutd only two bookfellers fhops in it, after a long fearch, and many inquiries; but they contained nothing ufeful or interefling to a native of Britain. A number of old volumes on the fubjects of alchemy and medicine, many more on church hiftory and theologicel controverfy, with a few on the mighty deeds of the houle of Bragan2a, were all their catalogues contained.

It is faid that the inhabitants fometimes go in fmall parties to the Public Garden, whcre they t:ke fupper, waik, and enioy themfelves with mufic and fireworks to a very late hour of the night.

Rio de Janeiro may junly be regarded as the grand central point on the coaft of the Brazils, from which svery other part of it may be at any time overawed. ?.).

Its regular force is faid to confit of two Squadrons. of Rio de Jacavalry, two regiments of artillery, fix regiments of infantry, two baltalions of difciplined milttia, and 200 difciplined free negroes, making a fum total of more nend than 10,000 men ; but Mr Barrow is of opinion that this efimate is much exaggerated, fince during his flay in that city he could difcover nothing to warrant fuch a conclufion; and he is inclined to think that the whole force of the Brazils united cannot exceed the number of 10,000 men. This place, which has for a time at leaft become the refidence of the royal family and government of Portugal, will, no doubt, acquire additional importance, and may perhaps at fome future period be the feat of a mighty empire.

Rio Janeiro, a river which rifes in the weftern mountains of Brazil, and running eaft through that country, falls into the Atlantic ocean at St Sebattian.

RIOM, an ancient town of France, in the department of Puy de Dome; feated on a hill, in fo agreeable a country, that it is called the garden of Auvergne. E. Long. 3.12. N. Lat. 45. 51.
liIO'T, in Law. The riotous affembling of 12 perfons, or more, and not difperfing upon proclamation, was finft made high treafon by flatute 3 and 4 Edw. VI. c. 5 . when the king was a minor, and a change of religion to be effected: but that flatute was repealed by flatute 1 Mar. c. 1. among the other treafons created fince the 25 Edw. III.; though the prohibition was in fubllance re-enacted, with an inferior degree of punifhment, by ftatute 1 Mar. ft. 2. c. 12. which made the fame offerace a fingle felony. Thefe fatutes fpecified and particularized the nature of the riots they were meant to fupprefs; as, for example, fuch as were fet on foot with intention to offer violence to the privy-council, or to change the laws of the kingdom, or for certain other fpecific purpofes; in which cafes, if the perfons were commanded by proclamation to difperfe, and they did not, it was by the ftatute of Mary made felony, but within the benefit of clergy ; and alfo the act indemnified the peace-officers and their affiftants, if they killed any of the mob in endeavouring to fupprefs fuch riot. This was thought a neceffary fecurity in that fanguinary reign, when popery was intended to be reeftablifhed, which was like to produce great difcontents : but at firf it was made only for a year, and was afterwards continued for that queen's life. And, by ftatute 1 Eliz. c. 16. when a reformation in religion was to be once more attempted, it was revived and continued during her life alfo; and then expired. From the acceffion of James I. to the death of Queen Anne, it was never once thought expedient to revive it; but, in the firfl year of George I. it was judged neceffary, in order to fupport the execution of the act of fettlement, to renew it, and at one ftroke to make it perpetual, with large additions. For, whereas the former acts exprefsly defined and fpecified what flould be accounted a riot, the ftatute 1 Geo. I. c. 5 . enacts, generally, that if any 12 perfons are unlarffully affembled to the difturbance of the peace, and any one juftice of the feace, fheriff, under fheriff, or mayor of a town, thall think proper to command them by proclamation to difperfe, if they contemn his orders and continue together for one hour afterwards, fuch contempt thall be felony without bencfit of clergy. And farther, if the reading of the proclamation be by force oppofed, or the reader be in any manner

17 Riot, Ripen.
manner wilfully hindered from the reading of it, fuch oppofers and hinderors'are felons without benefit of clergy; and all perforis to whom fuch proclamation ought to have been made, and knowing of fuch hindrance, and not difpering, atevfelons without benefit of clergy. There is the like indermifying claufe, in cale any of the mob be unfortunately killid in the endeavour to difperfe them; being copied from the act of Queen Mary. And by a fubfequent claufe of the new act, if any perfon, fo riotoutly affembled, begin even before proclamation to pull down any churth, chapel, meeting-houfe, dwellinghoufe, or out-houles, they thall be felons without benefit of clergy.

Riots, routs, and unlawful affemblies, muft have three perfons at leaft to conttitute them. An unlauyul a/fem$b l y$ is, when three, or more, do affemble themfelves together to do an unlawful act, as to pull down inelofures, to deffroy a warren or the game therein; and part without doing it, or making any motion towards it. A rout is where three or more meet to do an unlawful act upon a common quarrel, as forcibly breaking down fences upon a right claimed of common, or of way, and make fome advances towards it. A riot is where three or more actually do an unlawful act of violence, either with or without a common caufe or quarrel; as if they beat a man; or hunt and kill game in another's park, chafe, warren, or liberty ; or do any other unlawful act with force and violence; or even do a lavful act, as removing a nuifance, in a violent and tumultuous manner. The punifmment of unlawful affemblies, if to the number of 12 , we have juft now feen, may be capital, according to the circumftances that attend it; but, from the number of three to eleven, is by fine and imprifonment only. The fame is the cafe in riots and routs by the common law; to which the pillory in very enormous cafes has been fometimes fuperadded. And by the fatute 13 Hen. IV. c. $7 \cdot$ any two juftices, together with the fheriff or under-fheriff of the county, may come with the pofie comitatus, if need be, and fupprefs any fuch riot, affembly, or rout, arreft the sioters, and record upon the fpot the nature and circumflances of the whole tranfaction; which record alone fhall be a fufficient conviction of the offenders. In the interpretation of which flatute it hath been holden, that all perfons, noblemen and others, except women, clergymen, perfons decrepit, and infants under 15, are bound to attend the juftices in fuppreffing a riot, upon pain of fine and imprifonment ; and that any battery, wounding, or killing the rioters, that may happen in fupprefing the riot, is juftinable. So that our ancient law, previous to the modern riot-act, feems pretty well $t$ ) have guarded againft any violent breach of the public peace; efpecially as any riotous affemblyon a public or general account, as to redrefs grievances or pull down all inclofures, and alfo refifting the king's forces if fent to keep the peace, may amount to overt acts of high treafon, by levving war-againft the king.

RIPEN, a fea-port towr of Denmark, in Nurth Jutland, and capital of a diocele of the fame name, with a biftop's fee, a grood harbour, a caftle, two colleres, and a public library. The tombs of feveral of the kings of Denmark are in the cathedral church, which is a very handfome ftructure. The harbour, which has contilbuted greally to the profperity of this place, is at a finall difance, being feated at the mouth of the river

Nipfaa, in a country which fupplies the beft beeves in Denmark. It is 45 miles notth-wef of Slefrick and 25 fouth-by-weft of Wiburg. E. Long. 8. 94. N. Lat.

Ripen. Ripering of Grath. 55.25 . The diocele is bounded on the north by thofe of Wiburg and Athuys, on the fouth by the duchy of Sleliwick, and on the calt and weat by the fea,
RIPENING of Grain, means its arriving to matu. rity. The following paper, which appeared in the firt volume of the 'Iraulactions of the Koyal Society of E. dinburgh, may be worthy the attention of farmers in this country; where it frequently happens, from continued rains, that the corn is quite green when the froft fets in; in confequence of which, the farmers cut it down, without thinking it can poffibly arrive at further maturity.
"Summer 1782 having been remarkably cold and unfavourable, the harveft was very late, and much of the grain, efpecially oats, was green even in October. In the beginning of October the cold was fo great, that, in one night, there was produced on ponds near Kinneil, in the neighbourhood of Borrowitounnefs, ice three quartets of an inch thick. It was apprehended by many farmers, that fuch a degree of cold would effectually prevent the further filling and ripening of their corn. In order to afcertain this point, Dr Roebuck felected feveral falks of oats, of nearly equal fulnefs, and immediately cut thofe which, on the moft attentive comparifon, appeared the beit, and marked the others, but allowed them to remain in the field 14 days longer; at the end of which time they, too, were cut, and kept in a dry room for 10 days. The grains of each parcel were then weighed; when 11 of the grains which had been left ftanding in the field were found to be equal in weight to 30 of the grains which had been cut a fortnight fooner, though even the beft of the grains were far from being ripe. During that fortnight (viz. from October $7^{\text {th }}$ to October 21 ft ) the average heat, according to Fahrenheit's thermometer, which was obferved every day at eight o'clock in the morning and fix in the evening, was a little above 43. Dr Roebuck obferves; that this ripening and filling of corn in fo low a temperature fhould be the lefs furprifing to us, when we refleet, that feed-corn will vegetate in the fame degree of heat; and he draws an important inference from his obfervations, viz. That farmers fhould be cautious of cutting down their unripe corn, on the fuppofition that in a cold autumn it could fill no more."

A writer in the Scots Magazine for June 1792, under the fignature of Agricola, when fpeaking on this firbject, adds the following piece of information, viz. "I hat grain cut down before it is quite ripe will grow or fpring equally well as ripe and plump grain, provided it is properly preferved. I relate this from a fact, and alfo on the authority of one of the moft judicious and experienced farmers in this ifland, William Craik of A rbigland, Efq. near Dumfries, who was taught by fuch a fealon as this threatens to prove. This being the cafe, every wife econonical fatmer will preferve his ripe and plump grain for bread, and fow the grcen and fcemingly thrivelled grain, with a perfect conviction that the plants proceeding from fuch fued will yield as ftrong and thriving com as what grows from plump feed. By this means the farmer will enjoy the double advantage of having the corn moft productive in flour for bread, and his light flurivelled grain will go much farther in feed

## R I S $\left[\begin{array}{lll}38 & R & R\end{array}\right.$

Riphem than the plump grain would do. I faw the experiment
Ritible. thought fearcely worth giving to fowls, and yet produ- ced heavy large ears."

RIPHOEAN mouxtans, are a chain of high mountains in Ruflia, to the north-eaft of the river Oby, where there are faid to be the fineft fables of the whole empire.

RIPHATH, or Riphat, fecond fon of Gomer, and grandfon of Japhet (Gea, x. 3. 3 R:phat). In moft copies he is called Diphath in the Chronicles (I Chr, i. 6. met Diphat). The refernblance of the two Hebrev letters 7 Refb and + Daleth is fo much, that they are very often confounded. But, to the credit of the tranीators of our Englifh verfion be it faid, that in this inftance, as well as in many others, they have reftored the original reading, and rendered it Riphath. The learned are not agreed about the country that was peopled by the defeendants of Riphath. The Chaldee and Arabic take it for France; Eufebius for the country of the Sauromatæ; the Chronicon Alexandrinum for that of the Garamntæ; Jofephus for Paphlagonia. Mela affures us, that anciently the people of this province were called Riphateei, or Riphaces; and in Bithynia, bordering upon Paphlagonia, may be found the river Rhebeus, a people called Rhebantes, and a canton of the fame name. Thefe reafons have prevailed with Buchart to beliere, that Riphath peopled Paphlagonia. Others think he peopled the Montes Riphei ; and this opinion feems the moft reafonable to us, becaufe the other fons of Gomer peopled the northern countries towards Scythia, and beyond the Euxine fea.

RISIBLE, any thing capable of exciting laughter.
Ludicrous is a general term, fignifying, as may appear from its derivation, what is playfome, fportive, or jocular. Ludicrous therefore feems the genus, of which riffle is a fpecies, limited as above to what makes us liugh.
However eafy it may he, concerning any particular object, to fay whether it be rifible or not, it feems difficult, if at all practicable, to eftablifh any general charatter, hy which objeis of that kind nay be ditinguifhed from others. Nor is that a fingular cate; for, inpon a review, we find the fame difliculty in moft of the articles already handled. There is nothing more eafly, viewing a particular object, than to pronoungee that it is beautiful or ugly, grand or little : but were we to attempt general rules for ranging objeds under different clailes according to thefe qualities, we fhould be much gravelled. A feparate caufe increafes the difficulty of diftinguilling rifible objects by a general character: all men are not equally affected by rifible objects, nor the fame man at all times; for in high fpirits a thing will make him langh outright, which will fearcely provoke a finile in a grave mood. Rifible objects, however, are circumlcribed within certain limits. No object is rifible but what appears ficht, little, or trivial; for we laugh at nothing that is of importance to our orm intereft or to that of others. A real diftrefs raifes pity, and therefore cannot be rifible; but a flight or imagia: ry diltrefs, which moves not pity, is rifibi-. The adv nture of the fulling-mills in Dor Ouixote, is extremely rifitle; fo is the frene where Sariche, in a dark night, tumbling into a pit, and attaching bimfelf
to the fide by hand and foot, hangs there in terribse ditmay till the norning, when he difcovers himfelf to be within a foot of the bottom. A nofe remarkably long or fhort, is rifible ; but to want it altogether, fo far from provoking laughter, railes horror in the fpeciator. With refpect to works both of natere and art, none of them are rifible but what are out of rule; fome remarkable defect or exceis, a very torig vilage, for example, or a very fhort cne. Hence nothing juft, proper, de'cent, beautiful, proportioned, or grind, is rifible.

Even from this flight fketch it wfil be readily conjectured, that the emotion raifed by a rifible object is of a nature fo fingular, as fcarcely to find place while the mind is occupied with any other paffion or emotion; and the conjecture is verified by experience; for we farce ever find that emotion blended with any other. One emotion we muft except ; and that is, contempt raifed by certain improprieties: every improper act infpires us with fome degree of contcmpt for the author; and if an improper act be at the fame time rifible to provoke laughter, of which blunders and abfurdities are noted inftances, the two emotions of contempt and of laughter unite intimately in the mind, and produce externally what is termed a laugh of derifion or of foorn. Hence objects that caufe laughter may be dittinguithed into two kinds: they are either rifible or vidiculous. A rifible object is mirthful only ; a ridiculous object is both mirthful and contemptible. The firf raifes an emotion of laughter that is altogether plcafant : the pleafant emotion of laughter raifed by the other, is blended with the painful emotion of contempt ; and the mixed emotion is termed the emotion of ridicule. The pain a ridiculous object gives me, is refented and punifhed by a laugh of derifion. A rifible object, on the other hand, gives me no pain : it is altogether pleafant by a certain fort of titillation, which is expreffed externally by mirthful laughter. See Ridicule.

Rifible objects are fo common, and fo well underfood, that it is unnecefiary to confume paper or time upon them. Take the few following examples:

Falfaff. I do remember him at 'Clement's inn, like a man made after fupper of a cheefe-paring. When be was naked, te was for all the world like a forked radifl, with a head fantaftically casved upon it with a knife,

Sccond Part, Henry IV. act iii. fc. 5 -
The foregoing is of difproportion. The following examples are of llight or imaginary misfortunes.

Falfiff. Go fetch me a quart of fack, put a toaft in't. Have I liv'd to be carried in a Eaiket, like a barrow of butcher's offal, and to be thrown into t'e Thames! Well, if I be ferved fuch another trick, lil have my brains ta'en out and butter'd, and give them to a dog for a new-year's gift. The rogues flighted me into the river with as little remorfe as they would have drown'd a bitch's blind puppies, fifteen $i^{\text {'th 'lit- }}$ ter; and you may know by my fize that I have a kind of alacrity in finking; if the bottom were as deep as hell, I flould down. I had been drown'd, but that the fhore was fielvy and fhallow: a death that I abhor: for the water fivells a man; and what a thing mould I have been when I had been fwell'd ? I fhould have been a mourtain of mummy.

Merry Wives of Windjor, act iii. fc. Is.
Falfaif.

## R I T

R Tibl? Kite.

Fajz.eff. N:y, yo: Ahall hear, Mafter Brook, what I ha e fuffer' $\rfloor$ to bingy this woman to evil fur your ord. Rong thus cramm'd in the bafael, a couple of Fi. l's knawi, tis hinds, were call'd forth by their mistreft, to cary me in the name of fonl clothes to Ditchet-lane. illey took me on thair houlders, met the jealous knare their mafter in the door, who afold tiem once or tssice what they had in their bafsec. I quak'd for feat, leat the lunatic knave would have fearch'3 it; but Fate, ordaining he fhould be a cuckold, helu his hand. Well, on went be for a fearch, and away weat I for foul clothes. But mark the fequel, Multer Broo's. I fuffer'd the pangs of three egregious deaths: frit, an intolerable fright, to be deteited by a jealous ratte.a bell-weather ; next, to be compais'd like a good bilbo, in the circum?erence of a peck, hilt to point, hes! to head; and hen to be ftopt in, like a frong datillation, with flinking clothes that fretted in their own greafe. Think of that, a man of ny bidney; think of that, that am as lubject oo beat as buter ; a mana of cominual difolution and thaw ; it was a mira le to 'icape fuftocation. And in the height of this bath, when I was more than half flew'd in greafe, like a Droch dihh, to be thrown into the Thames, and cool'd glowing hot, in that furge, like a horfe thoe; think of that; hiffing hot ; think of that, IIr Brook.

Merry Wives of IWindfor, ąt iii. fc. 17. EITE, among divines, denotes the particular man-
ner of celebrating divine fervice in this or that coun- Ritorarl! try.
hitorneleo, or Refeat, in Mific, the burden $1 \cdots$ of a long, or the repetition of the fi:ft or cther verfes of a forg at the end of each couplet.

Rll'JERHUSIUS, Coarad, a learned German civilian, boin at Brunfisick in 1560 . He was profef. for of civil law at Aitdorf, and publighed a vatety of works, particularly as a civilian ; together with an e ition of Oppian in Greck and Latin : he was moreover an excellent critic; his notes upon many eminent authors having been inferted in the beft cditions of them He died in 1613 .

RITUAL, a book disecting the order and manner to be obferved in periorming divine fervice in a particular church, dioncfe, or the like. The ancieni heathens had alfo their rituals, which contained their rites and ceremonies to be obferved in building a city, confecrating a temple or aitar, in facrificing, and deifying, in dividing the curia, tribes, centurics, and, in gencral, in all their religious ceremoniss. There are feveral paffages in Cato's books, De re Ruffica, which may give us fome idea of tie rituals of the an cients.

FIV AL, a term applied to two or more perfons who have the fame pretenfions; and which is properly applied to a competitor in love, and figuratively to an antagoniz in any other purfuit.

## R I V E R,

Defintion. $\mathrm{S}_{\mathrm{S}}$ a current of frefl water, flowing in a BED or Channel from its fource to the fea.
The term is appropriated to a confiderable collection of waters, furmed by the conflux of two or more Brooks, which deliver into its channel the united ftreams of teveral Rivulets, which have collected the fupplies of many Rulls trickling down from numberlefs fpringe, and the torrents which carry off from the floping grounds the furples of every thower.

Rivers fcrm one of the chief features of the furface of this globe, ferving as voiders of all that is immediately redundant in our rains and frrings, and alfo as boundaries and barriers, and even as highrays, and in many cou-dies as plentiful ftorehoufes. They alfo fertilize our foil by laying upon our warm fields the richeft mould, brought from the high mountains, where it would have remained ufelefs for want of genial heat.

Being fuch interefting objects of attention, every branch acquires a proper name, and the whole acquires a fort of perfonal identity, of whech it is frequently difficult to find the princi le; for the name of the great body of waters which difcharges itfelf into the fea is traced backwards to one of the fources, while all the contributing freams are loft, although their waters form the chief part of the collection. And fumetimes the feeder in which the name is preferved is fraller than others which are united to the current, and which like a rich but ignoble alliance lofe their name in that of the more illuftrious fimily. Some sivers in-
deed are refpectable even at their birth, coming at once in force from tome great lake. Such is the Rio de la Plafa, the river St Laurence, and the mighiy itreams which iffue in all directions from the Baical lake. But, like the fons of Adam, they are all of equal delicent, and thould take their name from one of the feeders of thefe lakes. This is indced the cafe with a fetw, fuch as the Bhone, the Rline, the Nile. Thefe, after having mixed their waters with thofe of the lake, relume their appearance and their name at its outfet.

But in general their origin and progrefs, and even ©: ${ }^{4}$ and the features of their character, bear fome refimblance it an a (as has been prettily obferved by Pliny) to the life of 1 . man. The-river fprings from the earth; but its urigin is in heaven. Its beginnings are infignificant, and its infancy is frivolous; it plays among the flowers of a meadow; it waters a garden, or turns a little mill. Gathering frength in its youth, it becomes wild and impetuous. Impatient of the reftraints which it itill meets with in the hollows among the mountains, it is reflefs and fretful; quick in its turnings, and unfeady in its courfe. Now it is a roaring cataract, tearing up and overturnine whatever oppofes its progrels, and it fhoots leeadlong down from a rock; then it becomesa fullen and gloomy pool, buried in the bottom of a gliu. Recovering breath by repofe, it again dafles along, till tired of the uproar and mifchief, it quits all that it has fwept along, and leaves the opening of the valley ftrewed with the rejected waftc. Nos, quitting its retirentent, it comes abroad iuto the world, jour-

R I $V$ E $\overrightarrow{1 .}$

5
The reli-
gious refipect ior zivers.
rieying with more prudence and difcretion, through cultivated fields, yielding to circumflances, and winding round what would trouble it to overwhelm or remove. It paffes through the populous cities and all the bufy haunts of man, tendering its fervices on every fide, and becomes the fupport and ornament of the country. Now increafed by numerous alliances, and advanced in its courfe of exiftence, it becomes grave and flately in its motions, loves peace and quiet ; and in majeftic filence rolls on its mighty waters, till it is laid to reft in the vaft abyfs.

The philofopher, the real lover of wifdom, fees much to admire in the economy and mechanifm of running waters; and there are few operations of nature which give him more opportunities of remarking the nice adjuftment of the moft fimple means for attaining many purpofes of moft extenfive beneficence. All mankind feems to have felt this. The heart of man is ever open (unlefs perverted by the habits of felfifh indulgence and arrogant felf-conceit) to impreffions of gratitude and love. He who afribes the religious principle (debafed though it be by the humbling abufes of fuperfition) to the rvorkings of fear alone, may betray the flavifh meannefs of his own mind, but gives a very unfair and a falfe picture of the hearts of his neighbours. Lucretius was but half a philofopher when he penned his often quoted apophthegm. Indeed his own invocation fhows how much the animal was blended with the fage.
We apprehend, that whoever will read with an honeit and candid mind, unbiaffed by licentious wifhes, the accounts of the ancient fuperfitions, will acknowledge that the amiable emotions of the human foul have had their fhare in creating the numerous divinities whofe worthip filled up their kalendars. The fun and the hof of heaven have in all ages and nations been the objects of a fincere worfhip. Next to them, the rivers feem to have attracted the grateful acknowjedgments of the inhabitants of the adjacent countries. They have everywhere been confidered as a fort of tutelar divinities; and each little diffrict, every retired valley, had its river god, who was preferred to all others with a partial fondnefs. The expoftulation of Naaman the Syrian, who was offended with the prophet for enjoining him to wafh in the river Jordan, was the naturaleffufion of this attachment. "What! (faid he), are not Abana and Pharpar, rivers of Damalcus, more excellent than all the waters of Judæa? Might I not wafh in them and be clean? So he went away wroth."

In thofe countries particularly, where the rural labours, and the hopes of the flepherd and the hufbandman, were not to immediately connected with the approach and recels of the fan, and depended rather on what haprened in a far diflant country by the falls of periodical rains or the melting of collected fnows, the Nile, the Ganges, the Indus, the river of Pegu, were the fenfible agents of nature in procuring to the inhabitants of their fertile banks all their abundance, and they became the objects of grateful veneration. Their fources were fought out with anxious care even by conquering princes; and when found, sere univerfally v:orfhipped with the mof affectionate devotion. Thefe remarkable rivers, fo ensinently and fo palpably beneficent, preferve to this day, amidft every change of ha-
bit, and every increafe of civilization and improvement, the fond adoration of the inhabitants of thofe fruifful countries through which they hold their ftately courfe, and their waters are itill held facred. No progrefs of artificial refinement, not all the corruption of luxurious fenfuality, has been able to eradicate this plant of native growth from the heart of man. The fentiment is congenial to his nature, and therefore it is univerfal; and we could almoft appeal to the feelings of every reader, whether he does not perceive it in his own breaft. Perhaps we may be miftaken in our opinion in the cafe of the corrupted inhabitants of the populous and bufy cities, who are habituated to the fond contemplation of their own individual exertions as the fources of all their hopes. Give the thoemaker but leather and a few tools, and be defies the powers of nature to difappoint him; but the fimpler inhabitants of the country, the moft worthy and the moft refpectable part of every nation, after equal, perhaps greater exertion both of fikill and of induftry, are more accuftomed to refign themfelves to the great minifters of Providence, and to look up to heaven for the "early and the latter rains," without which all their labours are fruitlefs.

## extrema per illos. <br> Numenque excedens terris sefligia fecit.

And among the hurbandmen and the fhepherds of all nations and ages, we find the fame fond attachment to their fprings and rivulets.

## Fortunate fenex, hic inter fumina nota Et fontes facros frigus captabis opacum,

was the mournful ejaculation of poor Melibocus. We hardly know a river of any note in our own country whofe fource is not looked on with fome refpect.

We repeat our affertion, that this worhip was the offspring of affection and gratitude, and that it is giving a very unfair and falfe picture of the human mind to afcribe thefe fuperfitions to the working of fear alone. Thefe would have reprefented the river gods as feated on ruins, brandifhing rooted-up trees, with angry looks, pouring out their fweeping torrents. But no fuch thing. The lively imagination of the Greeks felt, and expreffed with an energy unknown to all other nations, every emotion of the human foul. They figured the Naiads as beautiful nymphs, patterns of gentlenefs and of elegance. Thefe are reprefented as partially attached to the children of men; and their interference in human affairs is always in acts of kind affiffance and protection. They refemble, in this refpect, the rural deities of the morthern nations, the fairies, but without their caprices and refentments. And if we attend to the defcriptions and reprefentations of their RiverGods, beings armed with power, an attribute which flavifh fear never fails to couple with cruclty and vengeance, we thall find the fame expreffion of affectionate truft and confidence in their kind difpofitions. They are generally called by the refpectable but endearing name of father. "Da Tyberi pater;" fays Virgil. Mr Bruce fays that the Nile at its fource is called the aboy or "father." We oblerve this word, or its radix, blended with many names of rivers of the caft; and think it probable that when our traveller got this name from the inhabitants of the neighbourhood, they applied to the fircam what is meant to exprefs the tutelar or

Hihlory, prefiding Tpitt. Thé river goás are alwass reppefented $\underbrace{}_{\text {as venerable old men, to indicate their being coeral }}$ with the world. But it is always a cruda viridifigne fenectus, and they are never reprefented as opprelied with age and decrepitude. Their beards are long and flowing, their looks placid, their attiturle eafy, reclin.e? on a bank, corered, as they are crowned, with never-fading felges and bulruthes, and leaning on their urns, from which they pour out their plentiful and fertilizing ftreams. -Mr Bruce's defrription of the fources of the Nile, and of the refpect paid to the facred waters, has not a frowning feature; and the hofpitable old man, with his fair daughter Irepone, and the gentle priefthood which peopled the little village of Geefh, form a contraft with the neighbouring Galla (among whom a military leader was called the lamb, becauie he did not murder pregnant women), which very clearly paints the infpiring principle of this fuperfition. Pliny fays (lib. viii. 8.) that at the fource of the Clitumnus there is an ancient temple highly refpesed. The prefence and the power of the divinity are exprefied by the fates which ftand in the veffibule.- Around this temple are feveral little chapels, each of which covers a socred fountain; for the Clitumnus is the father of feveral little rivers which unite their ftreams with him. At fome diftance below the temple is a bridge which divides the facred waters from thofe which are open to common ufe. No one mult prefume to iet his foot in the freams above this bridge; and to ftep over any of them is an indignity which renders a perfon infamous. They can only be vifited in a confecrated boat. Below the bridge rise are permitted to bathe, and the place is inceffantly occupied by the neighbouring villagers. (See alfo Vibius Sequefr. Orbelini, p. 101 103. and 221-223. allo Sueton. Caligula, c. 43. Virg. Gcorg. ii. 146 .

What is the catif of all this? The Clitumnus flows (near its fource) through the richent paftures, through which it was carefully diatributed by numberlefs drains; and thefe nourifhed cattle of fuch fpotlefs whitenefs and extraordinary beauty, that they were fought for with eagernefs over all Italy, as the moft acceptable viatims in their facrifices. Is not this fuperfition then an efufion of gratitude ?

Such are the diclates of hind-bected nature in our brea.ls, before it has been vitiated by vanity and felfconccit, and we floon'd not te athamed of fecling the imprefion. WVe hardty think of making any apology for divel ling a little on this incidental circumftance of the fupe: fitious vencration paid to rivers. We cannot think that our readers will be difpleafed at having agreeal!e iders excited in their mindo, being always of opinion that the torch of true philufoply wiill not only enlighten the underfending, but aifo wasm and cherifis the afe
V. ith reipeft to the origin of rivers, we lave very little to coter in this place. It is obvious to every perfon, that bedes the torie ss thich car.y down into the rivers wizat part of the rains end melted hows is :ot abforbed by the foil or taken un by $t$ a piarts which cover the earth, they are fed eitior immeliaiely or remotely by the fprinos. A $5 \cdot-7$ rimarkatle liteams ruh at once out of the carth in force, and mutt be c-nfidered as the continuation of finterraneous rivers. whoofe erigin we are therefore to feck ou'.; and we to not Vȯ., XVIII. Part I.
know any circumfance in which their firf beginnings differ from thofe of other rivers, which are formed by the union of litile ffreams and rills, each of wlich bas its nown fource in a fpring or fountin. This queftion, therefore, What is the procefs of nature, and what are the fupplies which fill our fprings? will be treated of under the word Spring.

Whatever be the fource of rivers, it is to he met with in almoft every part of the globb. The cruft of earth with which the rocky framing of this globe is covered is generally ftratified. Some of thefe frata are extremely pervious to water, having but fmall attraction for its particles, and being very porous. Such is the quality of gravelly ftrata in an eminent degree. Other itrata are muth more firm, or attract water more flrongly , and refufe it paffage. This is the cafe with firm rock and with clay. When a flratum of the firt kind has one of the other immediately under it, the water remains in the upper ffratum, and burfs out wherever the floping fides of the hills cut off the iftrata, and this will be the form of a trickling fpring, becaufe the water in the porous ftratum is greatly obitructed in its paifage towards the outlet. As this irregular formation of the earth is very general, we muft have fprings, and of courfe rivers or rivulets, in every corner where there are high grounds.
Rivers flow frgm the higher to the low grounds. It They flow is the arrangement of this elevation which diftributes from the them over the furface of the earth. And this appears higher to to be accomplifined with confiderable regularity; and, grounds. except the great defert of Kobi on the confincs of Chinefe Tartary, we do not remember any very extenfive tract of ground that is deprived of thofe channels for voiding the fuperfluous waters; and even there they are far from being redundant.

The courfes of tivers give us the beft general mathod Courfe ?f for judging of the elevation of a country. Thus it the rivers of appears that Savoy and Suitzerland are the higheft grounds of Europe, from whence the ground ©opes in every direction. From the Alps proceed the Danube and the Rhine, whofe courfes mark the two great valleys, into which many lateral ftreams defcend. The Po alfo and the Rhone come from the fame head, and with a ftceper and fhorter courfe End their way to the fea through valleys of lefs breadth and length. On the weft fide of the valleys of the Rhine and the Rhone the ground rifes pretty faft, fo that few tributhry ftreams come into them from that fide; and from this gentle elevation France flopes to the weftrard. If a line, nearly firaight, but bending a little to the northward be drawa from the lead of Savoy and Suitzerland all the way to Solikamlkoy in Silcria, it, will ncarly pafs througlt the moft elevated part of Europe; for in this tract moft of the rivers have their rife. Ont the left go off the razicus feeders of the Elbe, the Oder, the Welel, the Nicmaen, the Duna, the Neva, the Duina, the Petzora. On the tight, after $p$.fing the feede's of the Danshe, ve fe the fources of the Sereth and Pruth, the 1) iciler, the Bog, the Drieper, the Dun, arid the ruighty Vul a. The elev ition, however, is extremel, moderate : and it appest fremu the levels taken vith the barometer by the Abse Chappe d'Auteroche, that the head of the Volga is not more than $4^{-2}$ fuct above the furface of the ocean. And we mapy ovic: there by the bye, that its mouth, where

R 1 V E R.

Hiftory. it chtarges its waters int the Cafian fea, is undoubted?y lowe: by many feet, than the furface of the ozcur. Sce Pseumatics, $\mathrm{N}^{10} 277$. Spain and Finland, with Lapland, Norway, and Sweden, form two descied parts, which have litile fymmetry with the reft of Europe.

A chan of mountains begins in Nova Zembla, and fietchics due fouth to near the Cafpian fea, dividing Europe from Aisa. About three or four degrees north of the Cafpian fea it bends to the fouth-eaft, traverfes weftern Tartary, and paffing between the Tengis and Zaizan lakes, it then branches to the eaft and fouth. The eattern branch rums to the iliores of Korea and Kamtfchatka. The fouthern branch traverfes Turkeltan and Thivet, feparating them from Indiz, and at the head of the hingdom of Ava joins an arm ftretching from the great eaftern branch, and here forms the centre of a very fingular radiation. Chains of mountains iffee from it in every ditection. Three or four of them keep very clofe together, dividing the continent into narrow lips, which have each a great river flowing in the middle, and reaching to the extrene points of Malacca, Cambodia, and Cuchin-china. Fron the fame central point proceds another great ridge due eaf, and paffes a little north of Canton in Clina. We called this a fingular centre; for though it fends off fo many branches, it is ty no means the moft elevated part of the continent. lis the triangle which is included between the firft fouthern ridge (which comes from between the lakes Tanges and Zaizan), the great eaftern ridge, and its brrich which almolt unites with the fouthern ridge, lies the Boutan, and part of Thibet, and the many little rivers which occupy its furface flow fouthward and eaflwatd, uniting a little to the north of the centre often mentioned, and then pafs through a gorge eattward into China. And it is farther to be ooferved, that thele great ridges do not appear to be feated on the highert parts of the country; for the rivers wbich correlpond to them are at no great diflance from them, and receive their chief fupplies from the other fides. This is remarkably the cafe with the great Oby, which runs almoft parallel to the tidge from the lakes to Nora Zemtla. It receives its fupplies from the eaft, and indeed it has its fource far eaft. The higheft grounds (if ne except the ridges of mountains which are boundaries) of the continent feem to be in the country of the Cal. mucs, about $95^{\circ}$ caft from London, and latitude $43^{\circ}$ or $45^{\circ}$ north. It is reprefented as a fine though landy country, having many little rivers which lofe themfelves in the fand, os end in little falt lakes. This elevation firetches northeaft to a great diftance; and in this tract we find the heads of the Irtith, Selenga, and Iungukiaia (the great feeders of the Oby), the Olenitz, the Leral, the Yana, and fome other rivers, which all go off to the north. On the other fide we have the great river Amur, and many fmaller rivers, whofe nanies are not familiar. 'The H angho, the great river of China, rifes on the fouth fide of the great eaftern ridge we have fo often mentioned. This clevation, which is a continuation of the former, is fomewhat of the fame complexion, being very fandy, and at prefent is a defert of prodigious extent. It is defcribed, however, as inierSperfed with vaft tracts of rich pafture; and we know that it was formerly the refidence of a great nation, who came fouth, by the name of Turks, and poffefled
themfelves of mof of the sicheft kingdoms of Afia. In the fouth-wefter:1 extremity of this country are found remains not only of barbaric magnificence, but even of cultivation and elegance. It was a proftable privilege granted by Peter the Great to fome adventurers to tearch thefe fandy deferts for remains of former opu. lence, and many pieces of delicate workmanship (though not in a flyle which we would admire) in gold and filver were found. Vaults were found buried in the fand filled with written parers, in a character wholly unknown; and a wall was difcovered extending feveral miles, built with hewn ftore, and ornamented with corsiche ano battkments. But we are forgetting ourfelves, and relurn to the confideration of the ciftribution of the rivers on the farface of the earth. A great ridge of mountains begins at the fouth-eaft corner of the Euxine fea, and proceeds eattward, ranging along the fouth fide of the Cafpian, and ftill adrancing unites with the mountains firlt mentioned in Thibet, fending off fome branches to the fouth, which divide Perfia, India and Thibet. From the fouth fide of this ridge flow the Euphrates, Tigris, Indus, Ganges, \&ic. and from the north the ancient Oxus and many unkrown ftreams.

There is a remarkable circumftance in this quarter of the globe. Although it feems to be neareft to the greateit elevations, it feems alfo to have places of the greateft depreffion. We have already faid that the Cafpian fea is lower than the ocean. There is in its neigh. bourhood another great bafon of falt water, the lake Aral, which receives the waters of the Oxus or Gilion, which were faid to have formerly run into the Cafpian fea. There cannot, therefore, be a great difference in the level of thefe two bafons; neither have they any outlet, though they receive great rivers. There is another great lake in the very middle of Perfia, the Zare or Zara, which receives the river Hindemend, of near 250 miles length, befides other fireams. '1 here is another fuch in Afia Minor. The fea of Sodom and Gomorrah is another inftance. And in the high countries we mentioned, there are many fmall falt lakes, which receive little rivers, and have no outlet. The lake Zara in Perfia, however, is the only one which indicates a confiderable hollow of the country. It is now afcertained, by actual furvey, that the fea of Sodom is confiderably higher than the Mediterranean. 'I his feature is not, however, peculiar to Afia. It obtains alfo in Africa, whofe rivers we now proceed to mention.

Of them, however, we know very little. The Nile of Africs, indeed is perhaps better known than any river out of Europe; and of its fource and progrefs we have given a full account in a feparate article. See Nilf.

By the regifter of the weather kept by Mr Bruce at Gondar in 1770 and 1771 , it appears that the greateft rains are about the beginning of July. He fays that at an average each month after June it doubles its rains. The califth or canal is opened at Cairo about the 9 th of Auguft, when the river has rifen $3_{4}$ peeks (each 21 inctes), and the waters begin to decreafe about the 10 th of Septemher. Hence we may form a conjecture concerning the time which the latter employs in coming from Abyflinia. Mr Bruce fuppofes it 9 daya, which fuppofes a velocity not lefs than 14 teet in a fecond; a thing pait belief, and inconfiftent with all our notions. The general llope of the river is greatly diminifhed by feveral great cataracts; and Mr Bruce exprefsly fays, that

Hhtory．hie might have come down from Sennaar to the cataracts of syene in a boal，and that it is navigable for boats fur above Eennaar．：He came from Syene to Cairo by water．We apprehend that no boat would venture down a tiream muving even fix feet in a fecond，and none could row up if the velocity was three feet．As the waters begin to decreafe about the woth of Septem－ ber，we muit conclude that the waier then tlowing pait Cairo had left Abyiinua when the rains had greatly aba－ ted．Judging in this way，we mult fill allow the fream a velocity of more than in feet．Had the firfl five！！at Cairo been noticed in 170 or 1771，we misht have gutfled better．The year that Thevenot was in Egypt， the firt fwell of eirgt peeks was obferved Jan．29．The califh was opened for I4 pceks on Auguft 14th，and the waters beran to decreafe on September 23d，having ri－ fen to $21 \frac{1}{⿳ 亠 丷 厂 彡}$ at Cairo correfonding to Mr Bruce＇s oufervations at Gondar，and date every thing five days earlier

We uncierland that fome of our gentlemen fationed far up the Ganges have had the curiofity to take notes of the fivellings of that river，and compare them with the overlowings at Calcutta，and that their obiervations are about to be made public．Such accounts are valua－ b！e additions to our practical knowledge，and we ftall not negleat to infert the information in fome kindred ar－ ticle of this work．

The fame mountains which attract the tropical va－ pours，and produce the fertilizing inuidations of the Nile，perform the fame office to the famous Niger， whofe exitence has often been accounted fabulous，and with whofe courfe we have very little acquaintance． The refearches of the gentlemen of the African aifocia－ tion render its exifence no longer doubtful，and have greatly excited the public cuiofity．For a father ac－ court of its track，fee Nigir．

From the great number，and the very moderate fize， of the rivers which fall into the Atlantic ocean all the way fouth of the Gambia，we conclule that the wellern Thore is the moit elevated，and that the mountains are at no great diftance inland．On the other hand，the rivers at Melinda and Sofala are of a magnitude which incii－ cate a much longer courfe．But of all this we fpeak with much uncertainty．

The frame－work（fo to call it）of America is better known，and is fingular．
A chain of montains begins，or at leaft is found，in longitade $110^{\circ}$ weit of London，and latitude $40^{\circ}$ north， on the northern confines of the kingdom of Mexico， and ftretching fouthward through that kingdom，forms the ridge of the neck of land which feparates North from South America，and keeping almot clofe to the fhore， ranges along the whole weftem coaft of South Ameri－ ca．terminating at Cane Horn．In its courfe it fends off branches，which after feparating from it for a fcw leagues，rejoin it again，inclofing valleys of great extent from north to fouth，and of prodigious elevation．In one of thefe，under the equatorial fun，fiands the city of Ouito，in the midft of extenfive fields of barley，oats， wheat，and gardens，containing apples，pears，and goofe－ berries，and in fhort all the grains and fruits of the cooler parts of Europe；and although the vine is allo there in perfection，the olive is wanting．Not a dozen miles from it，in the low countries，the fugar－cane，the －indigo，and all the fruits of the torrid zone，find their
congenial heas，and the inbabitants iwelter under a burning fun．At a fnazil dillance on the other hand tower aloft the pinacles of Pichincha，Corambourou， and Chimboracao，crowned with nevcr－melting fnows．

The individual mountains of this itupendous range not only excced in height all others in the world（if we except the Peak of Teneriffe，Mount Retna，and Niont Blanc）；but they are fet down ou a bafe incom－ parably more elerated than aay other country．They cut off therefure all comumuication between the Pacific ocean and the inland contirent；and no rivers are to be found on the well coait of South Anrrica which have any confiderable iens th of courtic or body of waters．The country is drained，iike Africa，in the oppolite dircc－ tion．Not 100 miles from the city of Lima，the capi－ tal of Peru，which lies almolt on the fea shore，and jult at the foot of the high Cordill ras，ariles out of a Inall lake the Maragnon or Amazon＇s river，which，aficr rum－ ning northward for about 100 miles，taluc an $\mathrm{cu}^{9} \mathrm{et} 9$ direction，and croffcs nearly the b．o．den fart of South America，and falls into the great weftern ore 132 F Pa：s， after a courfe of not lefs than 3500 miles．In the firtt half of its defernt it receives a few mijulle．Fa d rivere from the north，and from the fouth it receives the great river Combos，fy ringing from another liuld lake not 50 miles dillant from the liead of the Mis gn n，and iaclo－ Ging between them a wide evtent of country．Then it receives the Yuta，the Yuerva，the Cuclivara，and Pa ． rana Wire，each of which is equal to the Rhiise ；and then the RIadera， 1 ch has flowed above $13=0$ miles． At their junction the breadth is fo great，that neither Thore can be feen by a perfon ftanding up in a canoe ：fo that the united flream muft be abcut lix miles broad． In this majeftic form it rolls along，at a prodigious rate through a flat country，covered with impenetrable fo－ relts，and mott of it as yet untrodden by human feet． Mr Condamine，who came down the fream，fays，that all is filent as the defert，and the twild beafts and num－ berlefs birds crowd round the boat，eyeing it as fome animal of which they did not feem afraid．The bed was cut deep through an equal and vielding foil，which feemed rich in every part，if he could judge by the ve－ getation，which was rank in the extreme．What an addition this to the poffible population of this globe！ A narrow flip along each bank of this mighty river would equal in furface the whale of Europe，and would probably exceed it in general fertility ：and although the velocity in the main ftream was great，he obferved that it was extrcmely moderate，nay almoff fill，at the fides；fo that in thofe parts where the country was inhabited by men，the Indians paddled up the river with perfect cafe．Boats could go from Para to near the mouth of the Madeira in $3^{8}$ days，which is near 1200 miles．

Mr Condamine made an obfervation during his paf－ fage down the Maragnon，which is extremely curious and inftructive，although it puzzled him very much．He obferved that the tide was fenfible at a vaft diffance from the mouth：It was very confilerable at the junc－ tion of the Mad ira ；and he fuppofes that it might have been obferved much farther up．This appeared to hins very furprifing，bccaufe there could be no doubt but that the furface of the water there was higher by a great many feet than the furface of the flood of the At－ lantic ocean at the mouth of the river．It was here－
fore very natural for hinn to afcribe the tide in the Maragnon to the immediate action of the nooon on its waters; and this explanation was the more reafonable, becaure the river extends in the directio: of terreftrial longitude, which by the Nextonien theory is moft favourable to the production of a tide. Journeying as he did in an Indian canoe, we cannot fuppofe that he had much leifure or conveniency for calculations, and therefore are not urprifed that he did not fee that even this circunn ance was of little avail in fo fmall or fhallow a body of water. He carefully noted, however, the timcs of high and low water as he pafed along. When arnived at Para, he found not only that the high water was later and later as we are farther from the mouth, but he found that at one and the fame inilant there were feveral points of high water between Para and the confluence of the Madeira, with points of low water intervening. This conclufion was eafily drawn from his onn obfervations, although he could not fee at one infant the high waters in different places. He had only to compute the time of high water at a particular fyot, on the day he obferved it at another ; allowing, as ufual, for the moon's change of pofition. The refult of his obfervations therefore was, thit the furface of the river was not an inclined planc whofe flope was leffened by the tide of rood at the mouth of the river, but that it was a waving line, and that the propagation of the tide up the river was nothing different from the propagation of any other wave. We may conceive it clearly, though imperfectly, in this way. Let the place be noted where the tide happens 12 hours later thala at the mouth of the river. It is evident that there is alfo a tide at the very mouth at the fame initant; and, fince the ocean tide had withdrawn itfelf during the time that the former tide had proceeded fo far up the river, and the tide of ebb is fucceffively felt above as well as the tide of flood, there muft be a low water between thefe two ligh waters.

Newton had pointed out this curious fact, and obferved that the tide at London-Bridge, which is 43 feet above the fea, is not the fame with that at Gravefcnd, but the preceding tide (See Phil. Tranf. 67.). This will be more particularly infited on in another place.

Not far from the head of the Maragnon, the CordilBeras fend off a branch to the north-ealt, which reaches and ranges along the fhore of the Nexican gulf, and the Kio Grande de Sta Martha occupies the angle between the ridges.

Anothcr ridge ranges with interruption along the ea? coaft of Terra Firma, fo that the whole waters of this country are collected into the Oroonoko. In like manner the north and eall of Brafil are hemmed in by mountainous ridges, through which there is no confiderable paffage ; and the ground floping backwards, all the waters of this iminenfe tract are collected from both fides by many confiderablc rivers into the great river Paraguay, or Rio de la Plata, which runs down the middle of this country for more than 1400 miles, and falls into the fea through a vaft mouth in latitude $35^{\circ}$.

Thus the whole of South America feems as if it had been formerly furrounded by a mound, and been a great bafon. The ground in the middle, where the Parama, th.e Madsira, and the Plata, take their rife, is an im.

## E R.

menfe marfh, uninhabitable for is exhalations, and quite Hiany. impervious in its prefent ftate.

The manner in which the continent of North Amenica is watered, or rather drained, bas alfo fome peculiarities. By looking at the map, one will obferve firf of all a general divifion of the whole of the belt known part into two, by the valleys in which the beds of the rivers St Laurence and Mififippi are fituated. The head of this is occupied by a fingular feries of frefh water feas or lekes, viz. the lakes Superior and Michigan ${ }_{3}$ which empty themfelves into lake Huron by two ca. taracts. This again runs into lake Erie by the river Detroit, and the Erie pours its waters into the Ontario by the famous fall of Niagara, and from the Ontario proceeds the great river St Laurence.

The ground to the fouth-welt of the lakes Superior and Erie is fomewhat lower, and the middle of the valley is occupied by the Miffifippi and the Miffouri, which receive on both fides a number of fmaller Atreans, and having joined proceed to the fouth, under the name Miffifippi. In latitude 37, this river receives into its bed the Ohio, a river of equal magnitude, and the Cherokee river, which drains all the country lying at the back of the United States, feparated from them by the ranges of the Apalachian mountains. The Miffiffippi is now one of the chief rivers on the globe, and proceeds due fouth, till it falls into the Mexican bay through feveral llifting mouths, which greatly refemble thofe of the Danube and the Nile, having run above 1200 miles.

The elevated country between this bed of the Miffiffippi and St Laurence and the Atlantic ocean is drained on the eaft fide by a great number of rivers, fome of which are very confiderable, and of long courfe; becaufe inftead of being nearly at right angles to the coaft, as in other countries, they are in a great meafure parallel to it. This is more remarkably the cafe with Hudfon's river, the Delaware, Patomack, Rapahanoc, \&c. Indeed the whole of North America feems to confift of ribs or beams laid nearly parallel to each other from north to fouth, and the rivers occupy the interffices. All thofe which empty themfelves into the bay of Mexico are parallel and almoft perfectly ftraight, unlike what are feen in other parts of the world. The weftermof of them all, the North River, as it is named by the Spaniards, is nearly as long as the Miffifippi.

We are very little informed as yet of the diffribution of rivers on the north-weft coaft of America, or the courfe of thofe which run into Hudfon's or Baffin's bay.

The Maragnon is undoubtedly the greatef river in of the ${ }^{13}$ the world, both as to length of run and the vall body great rim of water which it rolls along. The other great rivers vers fucceed nearly in the following order.


## PI I V/E R.

 We have been much affilied in this account of the courle of rivers, and their diffribution over the globe, by a beautiful planifphere or map of the world publifhed by Mr Bode altronomer royal at Berlin. The ranges of nountains are thete laid down with philofophical difcernment and precifion; anid we recommend it to the Hotice of our geographers. Wie cannot divine what has caufe! 1 Ir Buffon to fay that the courfe of mof rivers is from enft to welt or from welt to cail. No phyfical point of his fyftem feems to require it, and it iseeds onlyythat we look at his own map to fee its falisty. We Theryy. fhould naturally expect to find the gemeral courle of rivers nearly perpendicular to the line of fea-coalt; a: It we find it fo; and the chief exceptions are in oppofition to Mr Buffon's affertion. The ftrusture of America is fo particular, that very fequ, of its rivers bave their ge; nesal courfe in this direction. We procced now io confider the motion of rivers; a fubject which naturally refolves iffelf into two parts, theorctical and practical.

## Part I. Theory of the MOTION of RIVERS and Canals.

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## Importance

 of the $\boldsymbol{d}^{2} x-$ trine of the motion of rivers and cinals.THE importance of this fubject needs no commentary. Every nation, every country, every city is interefted in it. Neither our wants, our comforts, nor our pleafures, can difpenfe with an ignorance of it. We muft conduct their waters to the cencre of our dwellings; we mult fecure ourfelves againt their ravages; we muft employ them to drive thofe machines which, by compenfating for our perfonal weaknefs, make a few able to perform the work of thourands; we employ them to water and fertilize our fields, to decorate our manfions, to cleanfe and embellifh our cities, to preferve or extend our demefnes, to tranfport from county to county every thing which neceffity, convenience, or luxury, has rendered precious to man: for thefe purpofes we muft confine and govern the mighty rivers, ree muft preferve or change the beds of the fmaller ftreams, draw off from them what fhall water our fields, drive our machines, or fupply our houfes. We muft keep up their waters for the purpofes of navigation, or fupp'y their places by canals; we muft drain our fens, and defend them when drained; we muft underftand their motions, and their mode of fecret, flow, but unceafing action, that our bridges, our wharfs, our dikes, may not become heaps of ruins. Ignorant how to proceed in thefe daily recurring cafes, how often do we fee projects of high expectation and heavy expence fail of their object, leaving the fate burdened with works not only ufelefs but frequently hartful?

This has long been a moft interefting fubject of ftudy in Italy, where the fertility of their fields is not more indebted to their rich foil and happy climate, than to their numerous derivations from the rivers which traverfe them: and in Holland and Flanders, where their very exiftence requires unceafing attention to the waters, which are every moment ready to fwallow up the inhabitants; and where the inhabitants, having once fubdued this formidable enemy, have made thoie very waters their indefatigable drudges, tranfporting through every corner of the country the materials of the moft extenfive commerce on the face of this globe.

Such having been our inceffant occupations with moving waters, we flould expect that while the operative artifts are continually furniding facts and experiments, the man of $f_{i}$ eculative and fcientific curiofity, excited by the importance of the fubject, would ere now have made confiderable progrefs in the fcience; and that the profeffional engineer would be daily afting from eftablifhed principle, and be feldom difappointed in bis expectations. Unfortunately the reverfe of this is near-的 the true fate of the cafe; each engineer is obliged
to collect thic greaten part of his knowledge from his own experience, and by many dear-bought lefons, to direct his future operations, in which he till proceeds with anxiely and hefitation: for we liave not yet acquired principles of theory, and experiments have not: yet been collected and publihed by which an empirical practice might be fafely formed. Many experiments of ineflimable value are daily made; but they remain with their authors, who feldom have either leifure, ability, of generolity, to add them to the public ftock.

The motion of waters has been really fo little invel- Thisiciense tigated as yet, that hydraulics may ftill be called a new ftudy. We have merely fkimmed over a few common notions concerning the motions of water; and the mathematicians of the firft order feem to have contented themfelves with fuch views as allowed thern to entertain themfelves with elegant applications of calculus. This, however, has not been their fault. They rarely had any opportunity of doing more, for want of a knowledge of facts. They have made excellent ufe of the few which have been given them; but it required much labour, great variety of opportanity, and great expence, to learn the multiplicity of things which are combined even in the fimpleft cafes of water in motion, Thefe are feldom the lot of the rathematician; and he is without blame when he enjoys the pleafures withir his reach, and cultivates the fcience of geometry in its moft abftracted form. Here he makes a progrefs which is the boaft of human reafon, being almoft infured from error by the intellectual fimplicity of his fubject. But when we turn our attention to material objects, and, without knowing eifther the fize and fhape of the elementary particles, or the laws which nature has prefcribed for their action, prefume to furefee their efféts, calculate their exertions, direct their actions, what muft be the confequence? Nature thows her independence with refpect to our notions, and, always faithful to the laws which are enjoined, and of which we are ignorant, the never fails to thwart our views, to difoncert our projects, and render ufelefs all our efforts.

To wifh to know the natare of the elements is rain, Proner and our grofs organs are infulficiert for the ftudy To mode ofiafuppofe what we do not know, and to fancy Mlapes and vefligation. fizes at will; this is to raife phantoms, and will pro: duce a fyftem, but will not prove a foundation for any fcience. But to interrogate Nature herfelf, fudy the laws which the fo faithfully obferves, catch her, as wee fay, in the fact, and thus wreft from her the fecret in, this is the only way to become heis matter, and it is the cinly procedure confiftent with good fenfe. And we fec, that that foon afer Kepier detected the laws of the planetary mutions, when Galileo difcovered the uniform accelcration of gravity, when Pafchal difcovered the preffure of the atmofphere, and Newton difcovered the laws of at'raction and the track of a ray of light; allronomy, mechanics, hydroffatics, chemiftry, ovtics, quickly became bodies of found doetrine; and the deductions from their refpective theories were found fair reprefentations of the phenomena of nature. Whenever a man has diliovered a law of nature, he has laid the foundation of a fcience, and be has given us a new mean of fubjecting to our fervice fome element hitherto independent : and io long as groups of natural operations tollow a route which appears to us whimfical, and will not admit our calculations, we may be affured that we are ignorant of the principle which conncets them all, and regulates their procedure.

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Our igno. rance of the nneral laws of this motion,

This is renarkably the cafe with feveral phenomena in the motions of fluids, and particularly in the motion of water in a bed or conduit of any kind. Althongh the firlt geniufcs of Europe have for this century paft turned much of their attention to this fubject, we are almoft ignorant of the general laws which may be obferved in their motions. We have been able to felect very few points of refemblance, and every cafe remains nearly an individual. About 150 years ago we difcovered, by experience only, the quantity and velocity of water iffuing from a frall orifice, and, after much labour, have extended this to any orifice ; and this is almoll the whole of our confidential knowledge. But as to the uniform courfe of the ftreams which water the face of the earth, and the maxims which will certainly regulate this agreeably to our wifhes, we are in a manner totally igrorant. Who can pretend to fay what is the velocity of a river of which you tell him the breadth, the depth, and the declivity? Who can fay what fwell will be produced in different parts of its courfe, if a dam or weir of given dimenfions be made in it, or a bridge be thrown acrols it? or how much its waters will be raifed by turning another fream into it, or funk by taking off a branch to drive a mill ? Who can fay with confidence what muft be the dimenfions or llope of this branch, in order to furnifh the water that is wanted, or the dimenfions and flope of a canal which flall effectually drain a fenny diftrict? Who can fay what form will caufe or will prevent the undermining of banks, the forming of elbows, the pooling of the bed, or the depofition of fands? Yet thefe are the moft important gueftions.

The caufes of this ignorance are the want or uncertainty of our principles; the falfity of our only theory, which is helied by experience; and the fmall number of proper obfervations or experiments, and difficulty of making fuch as flall be ferviceable. We have, it is true, made a few experiments on the efflux of water from fmall orifices, and from them we have deduced a fort of theory, dependant on the fall of heavy bodies and the laws of hydroftatic preflure. Hydroftatics is indeed founded on very fimple principles, which give a very gnod account of the laws of tie quiefcent equilibrium of fluids, in confequence of gravity and perfect fluidity. But by what train of reafoning can we connect thefe with the phenomena of the uniform motion of the waecrs of a river or open fleam, which can derive its mo-
tion only from the flope of its furface, and the modifications of this nuction or its velocity only from the width and depth of the itream ? Ihefe are the only circumftances which can distinguifh a portion of a river from a veffel of the fame fize and fhape, in which, however, the water is at reft. In both, gravity is the fole caufe of preffure and motion; but there muit be fome circumflance peculiar to running waters which modifies the exertions of this active principle, and which, when difcovered, mut be the bafis of hydraulics, and muit oblige us to reject every theory founded on fancied hypothefes, and which can only lead to abfurd conclufions: and furely abfurd confequences, when Icgitimately drawn, are complete evidence of improper principles.

When it was difcovered experimentally, that thie ve-Principle locities of water iffuing from orifices at various depths on which under the furface were as the fquare roots of thofe the fyfiems depths, and the fut was verified by repeated experi-lics depend. ments, this principle was immediately and without modification applied "to every motion of water. Mariotte, Varignon, Guglielmini, made it the bafis of complete fyftems of hydraulics, which prevail to this day, after having received various amendments and modifications. The fame reafoning obtains through them all, though frequently obfcured by other circumiftances, which are mose perfpicuoufly expreffed by Guglielmini in his Fundamental Theorems.

He confiders every point $P$ (fig. 1.) in a mals of Plate fluid as an orifice in the fide of a veffel, and conceives CCCCLXIf the particle as having a tendency to move with the fame velocity with which it would iflue from the orifice. Therefore, if a vertical line APC be drawn through that point, and if this be made the axis of a parabolic ADE, of which A at the furface of the fluid is the vertex, and $A B$ (four times the height through which a heavy body would fall in a fecond) is the parameter, the velocity of this particle will be reprefented by the ordinate PD of this parabola; that is, PD is the fpace which it would uniformly defcribe in a fecond.

From this principle is derived the following theory Theory deof running waters.

Let DC (fig. 2.) be the horizontal bottom of a re- ${ }^{\text {it. }}$ fervoir, to which is joined a floping channel CK of uni- Fig. 2. form breadth, and let $A B$ be the furface of the ftanding water in the refervoir. Suppofe the vertical plane BC pierced with an infinity of holes, through each of which the water iffues. The velocity of each filament will be that which is acquired by falling from the furface $A B^{*}$. The filament C, iffuing with this ve-* See Gulocity, will then glide down the inclined plane likeglielnini's any other heavy body; and (by the common dostrine of Hydraulict, the motion down an inclined plane) when it has arrived ${ }^{21}$ at F , it will have the fame velocity which it would have acquired by falling through the height OF, the point $O$ being in the horizontal plane AB produced. The fame may be faid of its velocity when it arrives at H or K . The filament immediately above C will alfo iffue with a velocity which is in the fubduplicate ratio of its depth, and will then glide down above the firlt filament. The fame may be affirmed of all the filaments; and of the fuperficial filament, which will occupy the furface of the defcending ftream.

From this account of the genefis of a running flream of water, we may fairly draw the following confequences. drawn fross
I. The velocity of any particle $R$, in any part of
ine fream, is that acquired by falling from the horizontal plane AN.
2. The velocity at the bottom of the ftream is everywhere greater than anywhere above it, and is leaft of all at the furface.
3. The velocity of the flream increafes continually as the fiream recedes from is fource.
4. The depths EF, GH, \&cc. in different parts of the l?ream, will be nearly in the inverfe fubduplicate ratio of the depths under the furface AN: for fince the fame quantity of water is running through every fection EF and GH, and the channe! is fuppofed of uniform bre:dth, the depth of each fection mult be inverfely as the velocity of the water paffing through it. This velocity is indeed different in different filaments of the fection; but the mean velocity in each fection is in the fubduplicate ratio of the depth of the filament under the furface AB . Therefore the fream becomes more fhallow as it recedes from the fource; and in confequence of this the difference between LH and MG continually diminiihes, and the velocities at the bottom and furface of the fream continually approach to equality, and at a great ditance from the fource they differ infenfibly.
5. If the breath of the fream be contracted in any part, the depth of the rumning water will be increafed in that part, becaufe the fame quantity mult fill pals through; but the velocity at the bottom will remain the fame, and that at the furface will be lefs than it was before; and the area of the fection will be increafed on the whole.
6. Should a fluice be put acrofs the ftream, dipping a little into the water, the water muft immediately rile on the upper fide of the fluice till it rifes above the level of the refervoir, and the fmalleft immerfion of the fluice will produce this effect. For by lowering the fluice, the area of the fection is diminifhed, and the velocity cannot be increaled till the water heap up to a greater height than the furface of the relervoir, and this acquires a prehure which will produce a greater velocity of eflux through the orifice left below the fluice.
7. An additional quantity of water coming into this channel will increafe the depth of the fream, and the quantity of water which it conveys; but it will not increafe the velocity of the bottom filaments, unlefs it comes from a higher fource. srary to cx. and fhow the imperfection, at leaft, of the explanation.

The third confequence is of all the moft contrary to experience. If any one will but take the trouble of following a fingle brook from its fource to the fea, he will find it moft rapid in its begitnings among the mountains, gradually flackening its pace as it winds among the hills and gentler declivities, and at laft crecping fluwly along through the flat grounds, till it is checked and brought to reft by the tides of the ocean.

Nor is the fecond confequence morc agrecable to obfervation. It is univerfally found, that the velocity of the furface in the middle of the ftream is the greateft of all, and that it gradually diminifhes from thence to the bottom and fides.

And the firft confequence, if true, would render the sunning waters on the furface of this earth the inftru-
ments of immediate thin and devafiation. If the waters of our rivers, in the cultivated parts of a country,

Ther ry: which are two, three, and four hundred feet lower than their fource, ran with the velociiy due to that height, they would in a few minutes lay the earth bare to the very bones.

The velocities of our rivers, brooks, and rills, being fo greatly inferior 10 what this theory altigns to them, the other confequences are equally contrary to experience. When a ftream has its fection diminithed by narrowing the channel, the current increafes in depth, and this is alvays accompanied by an increafe of relocity through the whole of the fection, and moft of all at the furface; and the area of the fection does not increafe, but diminilhes, all the phenomena, thus contradicting in every circumftance the deduction from the theory; and when the fection has been diminifhed by a fluice let down into the Atream, the water gradually heaps up or the upper fide of the fluice, and, by its preflure, produces an acceleration of the flream below the fluice, in the fame way as if it were the beginning of a ftream, as explained in the theory. The velocity now is compofed of the velocity preferved from the fource and the velocity produced by this fubordinate accumulation; and this accumulation and velocity continually increafe, till they become fuch that the whole fupply is again difcharged through this contrated fection: any additional water not only increafes the quantity carried along the flream, but alfo increaies the velocity, and therefore the fection does not increafe in the proportion of the quantity.

It is furprifing that a theory really founded on a con- The ${ }^{23}$ ceit, and which in every the moft familiar and obvious however, circumftances is contradicted by facts, fhould have methas been with fo much attention. That Varignon flould imme-generally diately catch at this notion of Guglielmini, and make it the writers the fubject of many elaborate analy:ical memoirs, is not on the fubto be wondered at. This author only wanted donnerject, prife ou calcul; and it was a ufual joke among the academicians of Paris, when any new theorem was invented, donnans le à Varignon à gencralifer. But his numerous theorems and corollaries were adopted by all, and fill make the fubftance of the prefent fyitems of hydraulics. Gravefande, Míufchenbroek, and all the clementary treatifes of natural philofophy, deiiver no other doctrines; and Belidor, who has been confidered as the firft of all the fcientific engincers, details the fame theory in his great work the Architecture Hydraulique.

Guglielmini was, however, not altogether the dupe mhnu $^{24}$ of his own ingenuity. He was not only a pretty good fome or the mathematician, but an affiduous and fagacious obferver. more ingeHe had applied his theory to fome important cafes nionsfaw which occurred in the courfe of his profeffion as in-and atfector of the rivers and canals in the Milanefe, and to tempted to the courfe of the Danube; and could not but perceive tupply that great corrections were neceflary for making the them. theory quadrate in fome tolerable manner with obfervation ; and he immediately farv that the motion was greatly obifructed by inequalities of the cansi, which gave to the contiguous filameuts of the fream tranfverfe motions, which thwarted and confufed the regular progrefs of the reft of the ftream, and thus clecked its general progrefs. Thefe obfructions, he obferved, were mof effectual in the beginning of its courfe, while yet a fmall rill, running among ftones, and in a very
unegual unequal bed. The whiole flream being finall, the ine$q^{112 a l i t i e s ~ b o r e ~ a ~ g r e a t ~ p r o p o r t i o n ~ t o ~ i t, ~ a n d ~ t h u s ~ t h e ~ g e-~}$ - nersl effett was great. Ife alfo faw that the fame caufes (thefe tranfverfe motions produced by the unequal bottons) chielly affected the contiguous filaments, and were the reafons why the velocity at the fides and bottom was fo much diminiihed as to be lefs than the fiperficial velocity, and that even this might come to be diminifhed by the fame caufe. For he obferved, that the general ilretim of a river is frequently compofed of a fort of boiling or tumbling motion, by which maffes of water are brought up to the furface and again defeend. Every perfon mutt recollect fuch appearances in the frethes of a muddy river; and in this way Guglielmini was enabled to account in fome meafure for the difagreement of his theory with oblervation.

Mariote had obferved the fame obftuction even in the fmootheft glafs pipes. Here it could not be afcribed to the checks occafioned by tranfverfe motions. He thereforc afcribed it to friction, which he fuppofed to diminifh the motion of tuid bodies in the fame manner as of folids: and he thence concludes, that the filaments which immediatcly rub on the fides of the tube have their velocity gradually diminifhed; and that the fila:nents immediately adjoining to thefe, being thus oblijod to pafs over them or outferip them, rub upon them, and have their own velocity diminifhed in like manner, but in a fimaller degree; and that the fucceeding filaments torratds the axis of the tube fuffer fimilar but fmailer diminutions. By this necans the whole fream may come to have a fmaller velocity; and at any rate the wedium velocity by which the quantity difcharged is determined, is finaller than it would have tren independent of friction.
Guglielmini adopted this opinion of Mariotte, and in his next work on the Motion of Rivers, confidered this is the chigf carle of the retardation; and he added a a third circumftance, which he confidered as of no lefs confequence, the vifcidity or tenacity of water. He obryes that fyrup, oil, and ether fluids, where this vifcidity is more remarkable, have their motions prodigioufly retarded by it, and fuppofes that water differs arom them only in the degree in which it pofeffes this quality: and he fays, that by this means not only the particles which are nowing more rapicily have their motiens dimininited by thofe in their neighbourhood which inove flower, but that the fiaments allo which would liave inoved more flowly are accelerated by their more active neighbours ; and that in this manner the fuperficial and inferior velocities are brought nearer to an equality. But this will never account for the univerfal iact, that the fuperficial particles,are the fwifteft of all. The fi:perficial particles, lays he, acquire by this means a greater velocity than the parabolic law allows them; he medium velocity is often in the middie of the depth; the numerous obfacies continually multiplied and repehted, caufe the current to lofe the velocity acquired bv the fall; the Rope of the bottom then diminifies, and ofion becomes very fimall, fo that the force remaining is hardly athle to overcome the cbfiacles which are fiill repeatcu, and the river is reuised almof to a fate of P . gnition. He obferves, that the Rheno, a river if the Nilanefe, has near its mouth a flope of no more than $5^{\prime \prime}$, which he conf ers as quite in derguate to the
tafk; and here be introduces another puinciple, which he confiders as an effential part of the theory of open currents. This is, that there ariles from the very depth of the fream a propelling force which reftores a part of the loft velocity; He oflers nothing in proof of this principle, but ufes it to account for and explain the motion of waters in horizontal canals. The principle has been adopted by the numerous Italian writers on hydraulic?, and, by vaious contrivances; interwoven with the parabolic theory, as it is called, of Guglielmini. Our readers may fee it in various modifications in the Idrofatica e Idraulica of P. Lecchi, and in the Sperienze Idrauliche of Michelotti. It is by no means diffinet either in its origin or in the manner of its application to the explanation of phenomena, and feems only to ferve for giving fomething like confiftency to the vague and obfcure difcuflions which have been publifhed on this fubject in Italy. We have alrcady remarked, that in that country the fubject is particularly interefling, and has been much commented upon. But the writers of England, France, and Germany, have not paid fo much attention to it, and have more generally occupied themfelves with the motion of water in clofe conduits, which feem to admit of a more precife application of mathematical reafoning.
Some of thofe have confidered with more attention Sir $^{25}$ Ifac the effects of friction and vifcidity. Sir Ifaac Newton, Newton'3 with his ufual penetration, had feen diffinctly the man-obfervations ner in which it behoved thefe circumftances to operate. on this fubz He had occafion, in his refearches into the mechanifin ${ }^{\text {ject, }}$ of the celeftial motions, to examine the famous hypothefis of Defcartes, that the planets were carried round the fun by fluid vortices, and faw that there would be no end to uneertainty and difpute till the modus operandi of thiefe voftices were mechanically confidered. He therefore empluyed himfelf in the inventigation of the manner in which the acknowledged powers of natural bodies, asting according to the received laws of mechanics, could produce and preferve thefe vortices, and reflore that motion which was expended in carrying the planets round the funs. He therefore, in the fecond book of the Ptinciples of Natural Philofophy, gives a feries of beautiful propofitions, viz, 51, 52, \&c. with their corollaries, flowing how the rotation of a cylinder or fohere round its axis in the midft of a fluid will excite a vortical motion in this fluid; and he afcertains with mathematical precifion the motion of every filament of this rortex.

He fets out from the fuppofition that this motion is excited in the furrounding ftratum of fluid in confequence of a want of perfect lubricity, and aflimes as an hypothefis, that the initial refiffance (or diminution of the motion of the cylinder) which arifes from this want of lubricity, is proportional to the velocity with which the furface of the cylinder is feparated from the contiguous furface of the furrounding fluid, and that the whole refiutance is proportional to the velocity with which the parts of the fluid are mutually feparated from each other. From this, and the equality of action and re-action, it evidently follows, that the velucity of any fratum of the vortex is the arithmetical mediuna between the velocities of the ftrata immediately withia and without it. For the intermediate ittratuas cennot. be in equillbrio, unlefs it is as mach preffed forward by
the fuperior motion of the fratum within it, as it is kept back by the fluwer motion of the fratum without it.

This beautiful inventigation applics in the mof perfeet manner to every change produced in the motion of a fluid filament, in confequence of the vifcidity and friction of the adjoining filaments; and a filament proceeding along a tube at fome fmall diffance from the fides has, in like manner, a velocity which is the medium between thofe of the filaments immediately furrounding it. It is therefure a problem of no very difficult folu"tion to affign the law by which the velocity will gradually diminith as the filament recedes from the axis of a cylindrical tube. It is fomewhat furprifing that fo neat a problem has never occupied the altention of the matinematicians during the time that thefe fubjects were for afiduoufly ftudied ; but fo it is, that nothing precife has been publifhed on the fubject. The only approach to a difcuftion of this kind, is a Menoir of Mr Pitot, read to the academy of Paris in ${ }^{1} 726$, where he confiders the velocity of efflus through a pipe. Here, by attending to the comparative fuperiority of the quantity of motion in large pipes, he affirms, that the total diminutions arifing from friction will be (catcris paribus) in the inverfe ratio of the diameters. This was thankfully received by other writers, and is now a part of our hydraulic theories. It has not, however, been attended to by thofe who write on the motion of rivers, though it is evident that it is applicable to thefe with equal propriety; and had it been introduced, it would at once have folved all their difficulties, and particularly would have fhown how an alrooft imperceptible declivity would produce the gentle motion of a great river, without having recourfe to the unintelligible principle of Guglielmini.

Mr Couplet made fome experiments on the motion of the water in the great main pipes of Verfailles, in order to obtain fome notions of the retardations occafioned by friction. They were found predigious; but were So irregular, and unfufceptible of reduction to any general principle, (and the experiments were indeed fo few that they were unfit for this reduction), that he could eftablifh no theory. - What Mr Belidor ettablifhed on them, and maies a fort of fyftem to direct future engineers, is quite unworthy of attention.

Upon the whole, this branch of hydraulics, although of much greater practical importance than the conduct of water in pipes, has never yet obtained more than a vague, and, we may call it, flovenly attention from the mathematicians; and we afcribe it to their not baving taken the pains to fettle its firlt principles with the
for giving at once the futuamestal principles of motion in a free fluid whofe furface was not horizontal. But, by means of fome of thofe happy and Inrewd guefles, in which, as Daniel Bernoulli fays, he excellcd all men, he fas the undoubted confequences of fome palpable phenomenon which would anfwer all his prefent purpoles, and therefore entered noo farther inta the inveltigation.

The original theory of Guglielmini, or the principle adopted by him, that each particle of the veruicsl lection of a ruming ftream has a tendency to move as if it were iffuing from an orifice at that depth under the furlace, is falfe; and that it really does fo in the face of a dam when the floed gate is taken away, is no lefs fo; and if it did, the fublequent motions would hardly have any refemblance to thofe which he alligns them. Were this the cafe, the exterior form of the cafcade would be fomething like what is ©ketched in fig. 3. with an Fig. $\mathbf{3}$. abrupt angle at B, and a concave furface BEG. This will be evident to every one who combines the greater velocity of the lower filaments witb the flower motion of thofe which mutt flide down above them. But this greater advance of the lower filaments cannot take place without an expendilure of the water under the furface $A B$. The furface therefore finks, and B inilantly ceafes to retain its place in the horizontal plane. The water does not fucceflively flow forward from $A$ to $B$, and then tumble over the precipice; but immediately upon opening the flood-gate, the water waftes from the fpace immediately behind it, and the whole puts on the form reprefented in fig. 4. confifting of the curve Fig. 4. $\mathrm{A} a \mathrm{P} c \mathrm{EG}$, convex from $A$ to $c$, and concare from thence forward. The fuperficial water begins to accelerate all the way from A; and the particles may be fuppofed (for the prefent) to have acquired the velocity correfponding to their depth under the horizontal furface. This mult be underftood as nothing more than a vague detch of the motions. It requires a very critical and intricate inveftigation to determine either the form of the upper curve or the motions of the different filaments. The place A, where the curvature begins, is of equally difficult determination, and is rarious :: - cording to the differences of depth and of inclination of the fucceeding canal.

We have given this fort of hitlory of the progrefs Uncer- ${ }^{27}$ which had been made in this part of hydraulics, that rainty of our readers might form fome opinion of the many differ- the theories tations which have been written on the motion of rivers, when apand of the flate of the arts depending on it. Much of practice ex the bufinefs of the civil engineer is intimately conrected en pifici.? with it: and we may thercfore believe, that fince there was fo little principle in the theories, there could be but very little certainty in the practical opcrations. Thic f.t has been, that no engineer could pretend to fay, with any precifion, what would be tine effect of his operations. One whofe bufinefs had given him many opportunities, and who kept accurate and judicious regifers of his own works, could pronounce, with forue probabi lity, how much water would be brought off by a drain of certain dimenfions and a given flope, when the circumflatices of the cafe happence to tally with fome former work in which he had fucceeded or friled; but out of the pale of his own experience be could only make a f gacious guefs. A remarkable inflanre of this occurred not long ago. A fmall aquedued was lately carried intu

Pai-

Paris. It had been conducted or a plan peciented to the academy, who had correcied it, and gave a report of what its performanc: would be. Whe execuied in the mu it accuate manner, it was deficient in the proportion of five to nime. IV hea the cclebrated Eenguliers tias enifloyed by the ci:y of Edinburgh to fiperimiet.d the bringing in the vater tor the furpyo of the city, the g ve a repo.t on the pl- , hita was to ce rolivive. It was exceated to his complete fatisticiluas ; and the qua.... y of water deliveled was a., put one-fin 1 of the çar ity which be promiled, and : out one-e-venth of the quantity which the no lefs celeurated MI Liurin calculated from the lame plan.

Such being the nate of our the refical knuwled ce (if it can be called by this namz), natraalits bergan to be perluaded that it was but loling time to make any ufe of a theory fo incongruous with oujervation, and that the only fafe method o: proceeding was to multiply experimeits in every variety of circumitances, and to make a feries of experiments in every important cale, which thould compreliend all the practical modifications of that cafe. Pcrhaps circumances of refermblance might occur, which would e: alte us to comnect many of them together, and at laft difoover the principles witheh orcafioned this connection; b; which means a thary founded on lice:ce might be o imined. And if this point fhuld not be gained, we mivit perhaps find a few general thets, which are modi.ed in all thele particular cales, in luch a manner that we can fill trace the general facts, and fee the part of the faricuhar cafe which depends on it. This would be the ac puin ion of what may be called an empirical theory, by whi h every phenomenon would be explained, in fo far as the explatiation of a prienomenon is nothing more than the in inting out the general fact or law under which it is comprehended; and this theory would anfwer every practical purpole, becaufe we fhould confidenily forifee $x$ hat confequences $w$ uld refuit from fuch and fuch premises; or if we thould fail even in this, we fhould trill have a feries of experiments fo comprehenfise, that we could tell what place in the feries would correfpond to any particular cale which might be pro-$\mathrm{p}^{-r} \mathrm{~d}$.
There are two gentlemen, whofe labours in this refpect de'erve very particular notice, Proffflor Michelotti at Turin, and Abbé Boffut at Paris. The firt made a prodigious number of experiments both on the motion of water through pipes and in open canals. They were performed at the expence of the fovercign, and no expence was fpared. A tower was buill of the fineft mafonry, to ferve as a veffel from which the water was to iffue through holes of various fizes, under preffures from 5 to 22 feet. The water was received into bafons conftructed of maforry and nicely lined with flucco, from whence it was conveyed in canals of brick-wor $\therefore$ lined with fucco, and of various forms and declivities. The experiments on the expence of water through pipes are of all that have yet been made the moll numerous and exal:, and may be appealed to on every occafion. Thofe made in open canals are ftill more numerous, and are no doubt equally accurate; but they have not been fo contrived as to be to generally ufeful, being in general very ualike the important cafes which will occur ia practice, and they feem to have been contiived chienly with the view of eftablinhing or overturni g certain points of hydraulic doctrize which were pro-
tably prevalent at the time amorg the praclical hy rate litts.

The experiments of Boflut are allo of both kinds; and though on a much fnalier lcale than thole of irmeleelotti, juem to deturve equal confidence. As far as they tellow the fame track, they pertcoty coincide $m$ thear reaut:, which fhorid proture confidence in the ontier; and they are mad in lituatio ns much more analogous to the wall 1 acticul cales. This makes them doubly vatuable. 1 hey are to be found in his two volumes inti..ted Hyarodynamique. He has opencd this path of procecuicia a manner fo new and to judicious, that he has in tome me fure the merit of fuch as that follow him in the fame path.

This has been moit candidly and liberally allowed him and the by the chevalier de Buat, who has taken up thas matierprogrellive where the abbe Bofiut left it, and has prolecuted hisexperiexperiments with great affiduity; and we mut nuw ado me Buat. with fingular fucceis. By a very judicious condideration of the zubject, he hit on a particular view of i!, whach faved him the trouble of a monute conficieration of the fraill internal morions, and enabled him to proceed from a very general and esmdent proponition, which may oe received as the key to a compiete tytlem ot practical hyuraulics. We thatl follow thas ingenious author in what we have farther to luy on the lucject; and we doubt not but that our readers will think ne do a fervice to tie public by making thete difcullions of the chevaiter de Buat more gencralig known in this country. It mult not however be expected that we thall give more than a fynoftical view of them, connecteo by fucis tamuiar realuning as thall be entuer comprehenced or coathiucd in by perions not deeply veried in mathemanal fience.

## Sict. I. Theory of Rivers.

Ir is certain that the motion of open itreams muft, in His leading fome relpects, refemble that of bodies slicing dowa in- rtopufition clined ptanes perfectly polithed; and that tacy would accelerate continually, were they not obftructed: but they are obilructed, and frequently move unitornh.ly. This can only arife from an equiliorium between the torces which promote their defeent and thote which oppole it. Mr Buat, therefore, alliumes the leading propotiion, that,

When water flows uniformly on any charnel or bied, the accelerating force which obliges it 10 move is equal to the fum of all the refiflances which it meats with, whether arifing from its own vifciduty, or from the fristion of is bed.

This law is as old as the formation of rivers, and floould be the key of hydraulic fcience. Its evidence is clear; and it is, at any rate, the bafis of all uniorm motion. And fince it is fo, there malt be forme confiderable analogy between the m ion in pipes and in open clannels. Both owe their origin to an incquality of preflure, both would accelerate continually, it nothing hindered; and both are reduced to uniformity by the vilidity of the fluid and the fiection of the chimel.

It will therefore be convenient to examine the phenomena of water moving in pipes by the action of its weight only along the floping channel. But previous to this, fing a we. 0 有 we muft take fome notice of the obitruction to the entryputed. of water into a channel of any kind, arifing from the dellection

Tierry. datiktion of the many difierent filamen, which prefs into the clamel from the refelwir from crery fide. Then we thall be able to feparate this dimination of motion from the fum total that is obferved, and afcertain what part remains as produced by the fubiequent obitructiv: s.

We then flall confider the principle of uniform motion, the equilibrium between the power ath the refiftance. The power is the relative he ght of the column of Buid which tends to move aleng the inclined plane of its bed; the refiltance is the friction of the bed, the vifcidity of the fuid, and its adiefion to the fides. Here :.re nieceflarily combined a number of circumtlances which mult be gradually detached that we may fee the effect of each, viz. the extent of the bed, its perimeter, and its illope. By examining the effects produced by variations of each of thele feparately, we dilcover what thare each has in the general effect; and having thus analyfed the complicated phenomenon, we fliall be able to combine thefe its ciements, and frame a formula which fhall compreliend every circumfance, from the greatelt velocity to the extinction of all motion, and from the extent of a river to the narrow dimenfions of a quill. We thall compare this formula with a feries of experiments in all this variety of circumftances, partly made by Mr Buat, and parily collecied from other authors; and we flaall leave the reader to judge of the agreement.

Confident that this agreement will be found moft fatisiactory, we flall then proceed to confider very curforily the chief varieties which nature or art may introduce into thefe beds, the different velocities of the fame flream, the intenfity of the refitance produced by the incria of the naterials of the channel, and the force of the current by which it continually acts on this channel, tending to change either its dimenfions or its form. We fhall endeavour to trace the origin of thefe great rivers which fpread like the branches of a vigorous tree, and occupy the furface even of a valt continent. We fhall follow them in their courfe, unfold all their windings, fludy their train and regimen, and point out the law of its fability; and we thall inveltigate the caules of their deviations and wanderings.

The itudy of thefe na.urdl laws pleafes the mind: but it anfwers a tlill greater purpole; it enables us to afliit nature, and to liaften her operations, which our wants and our impatience often find too flow: It enables us to command the elements, and to force them to adminititer to our wants and our pleafures.

We fhall therefore, in the next place, apply the knowledye which we may acquire to the fulution of the nust inportant hydraulic cueftions which occur in the practice of the civil engineer.

We fhall confider the effects produced by a permanent addition to any river or ftream hy the union of another, and th: oppofite effect produced by any draught or ofliet, flowing the elevation or depreflion produced up the flee.m, and the ctange made in the depth and velocity below the acdition or ofiset.

We fhall pay a fimilar attention to the temporary iwells produced by freflies.

We thall aicertain the effects of fraichtening the courfe of a fream, which, by increafing its flope, muft increafe its velocity, and therefore fink the waters above the place where the curvature was removed, and diminif.
the tendency to overilow, while the fame immez: eonfequence mult expolc the places farther down to the rifk of hoods from winich they would otheririle have been free.
The effects of dime or weirs, and of bars, mult then be confidered; the gorge or fiwell which they produce up the ftream mult be determined for every diftance from the weir or bar. This will furnilh us with rules for rendering navigaide or floatable fuch witers as have too litule depth or too great flope. And it will appear that immenle advantages may be thus derived, with a moderate expence, even from trilling brown-, it we will relinquiln all prejudices, aad not imagine that fuch conveyaince is impoflible, becaufe it camot be earried on by fuci boats and limall cralt as we have been accufionecd to look at.

The effeets of canals of derivation, the rules or maxims of draining, and the general maxims of embankment, come in the next place; and our difcuflions will conclude with remarks on the moit proper forms for the eintry to canals, locks, docks, harbours, and mouths of rivers, the beit flape for the ftarlings ol bridges and of boats for inland naxigations, and fuch like fubordmate but interelting particutars, which will be fuggefled by the general thread of dilculfion.
It is confidered, as phyfically demonfrated (fee $\mathrm{HY}-\mathrm{Na}_{\mathrm{r}}{ }^{33}$ al veo DRODYNAMYCS), that water iffuing from a fmall orifice wcity, exin the bottom or fide of a vety large vellel, almott in- co cald flantly acquires and maintains the velocity which a hea-dra harge ry body would acquire by falling to the orifice from the through horizontal furface of the itagnant water. This we thail mathoi call its Natural Vefocity. Therefore, if we multiply the ares of the orifice by this velocity, the product will be the bulk or quantity of the water which is difcharged. This we may call the Nutural Expence of water, or the Nitural Discharge.
Let O reprefent the area or lection of the orifice expreffed in fome known meafure, and $/ 2$ its depth under the furface. Let $g$ expreis the velocity acquired by a heavy body during a fecond by falling. Let V be the medium velocity of the water's motion, Q the quantity of water difcharged during a fecond, and N the natural expence.
We know that V is equal to $\sqrt{25} \times \sqrt[1]{ } / h$. Therefore $\mathrm{N}=\mathrm{O}, \sqrt{25} \sqrt{ } / \mathrm{h}$.
If thele dimenfions be all taken in Englih feet, we have $\sqrt{2 g}$ very nearly equal to 8 ; and therefore $\mathrm{V}=$ $8 \sqrt{ } h$, and $\mathrm{N}=\mathrm{O} .8 \sqrt{ } /$.

But in our prefent bufnels it is much more convenient to meafure every thing by inches. Tlecelore fince a body acquires the velocity of 32 feet 2 inches in a fecond, we have $2 \mathrm{~g}=6_{4}$ feet 4 inclies or 772 inches, and $\sqrt{2 g}=27.78$ inches, neatly $27!$ inche:.
Therefore $\mathrm{V}=\sqrt{772} \mathrm{~V} h=27.7^{8} \mathrm{~V} h$, and $\mathrm{N}=0$. $\sqrt{77^{2}}{ }^{1} / 2=0.27 .7^{8}+h$.

But it is alfo well known, that if we vere to calculate the expence or difcharge for every orifice by this fimple rule, we thould in every inflance find it much greter than nature really gives us.

When water iffies through a hole in a thin plate, the lateral columns, preting into the hole from all fides, caufe the iffining filaments to converge to the axis of the jet, and contract its dimel fions at a little diflance from thic loole. And it is in this place of greate:h con-
$\mathrm{G}_{2}$ traction

Thievy trafion that the water acquires that velocity which as equal to that acquired by falling from the furfacc. Therefore, that our compuied difcharge may bent agree with obfervation, it milt be calculated on the fuppofition that the orifice is diminifted to the fize of this frralleft fection. But the contraction is fubject to variations, and the dimenfions of this fmalleft fection are st all times difficult to afcertain with precifion. It is therefore much more convenient to compute from the real dimemions of the orifce, and to correat this computed difcharge, by means of an actual comparifon of the computed and cffective difcharges in a feries of experiments made in fituations refembling thofe cafes which moft frequentiy occur in praciice. This correction or its caufe, in the mechanifm of thofe internal motions, is generally called Contraction by the writers on hydraulics; and it is not confined to a hole in a thin plate: it happens in fome degree in all cafes where fluids are made to pafs through narrow places. It happens in the entry into all pipes, canals, and fluices; nay even in the puffage of water over the edge of a board, fuch as is utually fet up on the head of a dam or weir, and even when this is immerfed in water on both fides, as in a bar or keep, frequently employed for raifing the waters of the level ftreams in Flanders, in order to render them navigable. We mentioned an obfervation* of Mr Buat to this effect, when he faw a goofberry rife up from the bottom of the canal along the face of the bar, and then rapidly fly over its top. We have attempted to reprefent this motion of the filaments in thefe different fituations.
Fig. 5. A fhows the motion through a thin plate.
$B$ thows the motion when a tube of about two diameters long is added, and when the water flows with a full mouth. This does not aluays happen in fo thort a pipe (and never in one that is fhorter), but the water frequently detaches itfelf from the fides of the pipe, and fows with a contracted jet.

C fhows the motion when the pipe projects into the infide of the veffel. In this cafe it is difficult to make it flow full.
$D$ reprefents a mouth-piece fitted to the hole, and formed agreeably to that fhape which a jet would affume of iifelf. In this cafe all contraction is avoided, bccaufe the mouth of this pipe may be confidered as the real orifice, and nothing now diminifhes the difcharge but a trifing friction of the fides.

E fhows the motion of water over a dam or weir, where the fall is free or unobiftructed; the furface of the lower flream being lower than the edge or fole of the waftc-board.
$F$ is a fimilar reprefentation of the motion of water over uhat we would call a bar or kcep.

It was one great aim of the experiments of Michelotti and Boffut to determine the effects of contraction in thefe cafes. Nichelutti, after carefully obferving the form and dimenfions of the natural jet, made various moath-pieces refembling it, till be obtained one which produced the fmalleft diminution of the computed difcharge, or till the difcharge computed for the area of its fraller end approached the nearcft to the effective ditrharge.. And he at laft obtained one which gave a difcharge of 983 , when the natural difcharge would ha:e
been roco. This piece was formed by the revolution of a trochoid sound the axis of the jet, and the dimenfions were as follow:
$\begin{aligned} \text { Diameter of the outer orifice } & =36 \\ \text { Length of the axis inner orifice } & =46 \\ & =96\end{aligned}$
The refults of the experiments of the Abbé Boffut and of Michelotti fearcely differ, and they are expreffed in the following table :

N or the natural expence
Q for the thin plate fig. A ?
almoft at the furface $;$
$Q$ for ditto at the depth of 8 feet
() for ditto at the depth of 16 feet

Q for a tube 2 diameters long, ? fig. B.
$Q$ for ditto projecting inwards and flowing full
$Q$ for ditto with a contracted jet, fig. C.
$\Omega$ for the mouth piece, fig. D.
Q for a weir, fig. E.
$Q$ for a bar, fig. $F$.
$10000=0.27 .7^{8}$, $/ 2$
65260.18 .13 V h
$61950.17 .2 \mathrm{I} \sqrt{ } / 2$
$61730.17 .25 \mathrm{~V} / 2$
$81250.22 \cdot 57 \sqrt{ } h$
$68140.18 .93 \sqrt{ }$ h
$51370.14 .27 \sqrt{ } / \mathrm{h}$
$9831 \quad 0.27 .31 \mathrm{~V}$ h
95360.26 .49 । $^{1 / 2}$
$973^{\circ} \quad 0.27 .03{\sqrt{ }{ }^{h}}^{6}$

The numbers in the laft column of this little table are the cubical inches of water difcharged in a fecond when the height $h$ is one inch.

It muft be obferved that the difcharges afligned here for the weir and bar relate only to the contractions occafioned by the paffage over the edge of the board. The weir may alfo fuffer a diminution by the contractions at its two ends, if it fhould be narrower than the ftream, which is generally the cafe, becaufe the two ends are commonly of fquare mafonry or wood-work. The contraction there is nearly the fame with that at the edge of a thin plate. But this could not be introduced into this table, becaufe its effect on the expence is the fame in quantity whatever is the length of the wafte-board of the weir.

In like manner, the diminution of difcharge through Diminäio a fluice could not be espreffed here. When a fluice is of dircharge drawn up, but its lower edge ftill remains under water, through a the difcharge is contracted both above and at the fides, fluce, \&cc. and the diminution of difcharge by each is in proportion to its extent. It is not eafy to reduce either of thefe contractions to computation, but they may be very eafily obfersed. We frequently can obferve the water, at coming out of a fluice into a mill courfe, quit the edge of the aperture, and fhow a part of the bottom quite dry. This is always the cafe when the velocity of efflux is confiderable. When it is very moderate, this place is occupied by an eddy water almoft ftagnant. When the head of water is 8 or 10 inches, and runs off freely, the fpace left betsseen it and the fides is about $1 \frac{1}{3}$ inches. If the fides of the entry have a flope, this void fpace can never appear; but there is always this tendency to convergence, which diminifies the quantity of the difcharge.

It will frequently abridge computation very much to confider the water difcharged in thefe different fituations as moving with a commen velocity, which we conceive as produced not by a fall from the furface of the fluid (which is exaet only when the expence is equal to the natural expence), but by a fall $/ 2$ accon:modated to the dif,

Theors. charge: : or it is eonvenient to know the height which $\xrightarrow[\sim-\text { wourld produce that very velocity whioh the water iffues }]{ }$ with in thefe fituations.

And alfo, when the water is obferved to be actually moving with a velocity V , and we know whether it is coming through a thin plate, through a tube, over a dam, \& © . it is neceflary to know the preffure or head of water $h$ which has actually produced this velocity. It is convenient therefore to have the foilowing numbers in readinefs.

$$
\begin{aligned}
& h \text { for the natural expence }=\frac{V^{2}}{77^{2}} \\
& h \text { for a thin plate } \quad=\frac{V^{2}}{296} \\
& \begin{aligned}
h \text { for a tube } 2 \text { diam. long } & =\frac{T^{2}}{505} \\
h \text { for a dam or weir }- & =\frac{\mathrm{V}^{2}}{7^{26}} \\
h \text { for a bar } & =\frac{V^{2}}{7+6}
\end{aligned}
\end{aligned}
$$

It was neceffary to premife thefe Facts in hydraulics, that we may beable in every cafe to diftinguifh between the force expended in the entry of the water into the conduit or canal, and the force employed in overcoming the refiitances along the canal, and in preferving or accelerating its motion in it.

The motion of running water is produced by tiwo caufes : r. The action of gravity; and, 2. The mobility of the particles, which makes them affume a level in confined veffels, or determines them to move to that fide where there is a defect of preflure. When the furface is level, every particle is at reft, being equally preffed in all directions; but if the furface is not level, not only does a particle on the very furface tend by its own weight towards the lower fide, as a body would flide along an inclined plane, but there is a force, external to itfelf, arifing from a fuperiority of preffure on the upper end of the furface, which pufhes this fuperficial particle towards the lower end; and this is not peculiar to the fuperficial particles, but affects every particle with-
Fig. 6. in the mafs of water. In the veffel ACDE (fig. 6.), containing water with an inclined furface AE . if we fuppofe all frozen but the extreme columns AKHB, FGLE, and a connecting portion HKCDLG, it is evident, from hydroftatical laws, that the water on this connecting part will be pufhed in the direction CD; and if the frozen mals BHGF were moveable, it would alfo be pufled along. Giving it tluidity will make no change in this refpect; and it is indifferent what is the fituation and fhape of the connecting column or columns. The propelling force (MINF being horizontal) i; the weight of the column AMNB. The fame thing will obtain wherever we felect the vertical columus. There will always be a force tending to pufl every particle of water in the direction of the declivity. The conferuence will be, that the water will fink at one end and rife at the other, and its furface will reft in the horizontal pofition $a O_{e}$, cutting the former in its middle O. This cannot be unlefs there be not only a motion of permenoicular defcent and afcett of the vertical columns, but alfo a real motion of tranflation from K 10wards L. It perhaps exceeds our mathematical fkill to t:ill what will be the motion of each particle. Newton
did not attempt. it in his inveftigation of the motion of waves, : bor is it at all neceffary here. We may, however, acquire a very ditinct notion of its general effect. Let $O P Q$ be a vertical plane paling through the midale point $O$. It is evident that every particle in $P Q$, fuch as $P$, is prefled in the direction Q1D, with a force equal to the weight of a fingle row of particles, whole length is the difference between the columns. BH and EG. The force acting on the particle $Q$ is, in like manner, the weight of a row of particles $=A C-E D$. Now if $\mathrm{OQ}, \mathrm{OA}, \mathrm{OE}$, be divided in the fame ratio, fo that all the figures ACDE, BHGE, \& \& . may be fimilar, we fee that the force arifing folely from the declivity, and acting on each particle on the plane OQ, is proportional to its depth under the farface, and that the row of particles ACQDE, BHPGE, \&cc, which is to be moved by it, is in the fame proportion. Hence it unqueftionably follows, that the accelerating force on each particle of the row is the fame in all. Therefore the whole plane $O Q$ tends to advance forward together with the fame velocity ; and in the inflant immediately fucceeding, all thefe particles would be found ayain in a vertical plane indefinitely near to $O Q$; and if we fum up the forces, we thall find them the lame as if $O Q$ were the opening of a tluice, having the water on the fide of D ilanding level with O , and the water on the other fide ftanding at the height AC. This retuit is extremely different from that of the hafty theory of Guglielmini. He confiders each particle in $O Q$ as urged by an accelerating force proportional to its depth, it is true; but he makes it equal to the weight of the row OP, and never recollects that the greatelt part of it is balanced by an oppefite preflure, nor perccives that the force which is not balanced muft be diftributed among a row of particles which varies in the fame proportion with itfelf. When thefe two circumflances are neglected, the refult mult be incompatible with obfervation. When the balanced forces are taken into the account of preflure, it is evident that the furface may be fuppofed horizontal, and that motion flould obtain in this cafe as well as in the cafe of a floping furface: and indeed this is Gugliemmini's profeffed theory, and what he highly values himfelf on. He announces this difcovery of a ners principle, which he calls the energy of deep watcrs, as an important addition to hydraulics. It is owing to this, fays he, that the great rivers are not flagnant at their mouths, where they have no perceptible declivity of furface, but, on the contrary, have greater encrgy and velocity than farther up, where they are thallower. This principle is the bafis of his improved theory of rivers, and is infifted on at great lengtin by all the fubfequent writers. Buflon, in his theory of the earth, makes nuich ufe of it, We cannot but wonder that it has been allowed a place in the theory of rivers given in the great Encyclpectio of Paris, and in an article having the fromare (O) of D'Alembert. We have been very anxious to flow the fithty of this principle, becaufe we confider it as a mere fubterfuge of Gugliclmini, by which he was able to patch up tie mathematical theory which he had fo haftily taken from Newton or Galileo ; and wee think that we bave fectured our readers from being milied by it, when we lho:s that this energy muft be equally operative when tho fur, face is on a dead level. The abfurdity of this is erina dent. We flall fee ly and bye, that deep waters,wheni/,

Cheory, in actaal mocion, have an energy not to be found in fiallow running waters, by which they are enabled to continue that motion : but this is not a moving p:inciple; and it will be fully explained, as an immediate reftut of princioles, not vagucly conceived and indiflinetly exprcfied, like this of Guglielmini, but eafily underltood, and appreciable wi h the greatelt precifion. It is an energy common to ail great bodies. Although tiney lofe as much monentum in furmounting any ooftacle as fraall ones, they lofe but a fmall portion of their velocity. At prefent, employed only in conficering the progreffive motion of an open ftream, whofe fuiface is not level, it is quite enough that we fee that fuch a motion mult obtain, and that we fee that there are propelling forces; and that thofe forces arife folefy from the want of a level furface, or from the flope of the furface; and that, with refpect to any one particle, the force acting on it is proportional to the difference o? level between each of the two columns (one on each fide of the particle) which produce it. Were the furface level, there would be no motion ; if it is sot level, there will be motion ; and this motion will be proportional to the want of level or the declivity of the furtace : it is of no confequence whe ther the bottom be level or not, or what is its flape.

Hence we draw a fundamental principle, that the motion of riucrs deponds entirely on the flope of the firrface.

The slope or declivity of any inclined plane is not wroperly expreffed by the difference of height alone of it extremities; we mult alfo confider its length : and the meafure of the flope mult be fuch that it may be the fame while the declivity is the fame. It muft therefore be the fame over the whole of any one inclined plane. We fhall anfiver thefe conditions exactly, if we take for the meafure of a flope the fraction which exprefles the elevation of one extremity above the other divided by the length of the plane. Thus $\frac{A M}{A F}$ will exprefs the declivity of the plane AF.

If the water met with no refiftance from the bed in which it runs, if it had no adhefion to its fides and bot$t: m$, and if its fluidity were perfeet, its gravity weuld accelerate its courfe continually, and the earth and its inhabitants would be denrived of all the adva 1 .ges which they derive from its numberlefo freams. Th y would run off o quickly, that our fieks, dried up as foon as watered, would be barren and ufelefis. No foil coald re? the impetu fity of the torrents; and their acueleratisg force wou'd ronder them a dettroying foourg", were it not that, by kind Piovidence, the rein ance of the bect, and the vifcidity of the fluid, become a check which reizs them in and lets bounds to their rapidity. In this rannace the frittion on the fides, which, by the vifcidity of the water, is communicated to the whole mais, and the very adhefion of the particles to ach other, and to the fles of the chamel, are the caufes vhich make the refitances bear a relation to the velocity; fo that the reffanres aus nenting with the velucties, cume at 1yt to bal. nce the accelerating force. Then the velority 1 wiw . ofluired is preferved, and the motion becomes it iforn, without being able to ac, wice nell increafe, unicf fome change fucceeus either in the fope or in the e ppacity of the channel. Hence ar fou the lecond maxim in the motion of rivers,

E R.
that when a fiream moecs uniformly, the rofinance ws c? ts the accelirating force.

As in the ettlux o: water through ozifices, we pals over the rery begimnings of the accelerated mation, which is a matter of fipeculative curiofity, ard confder the motion in a itate of permanency, dejend ing on the head of water, the area of the cri i.e, the velucity, and the expence ; fo, in the theory of the untiform mation of rivers, we confider the flupe, the tranlverfe fection or area of the fream, the unitorm velocily, and the expence. It will be convenient to shix preciee meanings to the terms which ne thall employ.

The section of a ficam is the area of a plane per- Terms prependicular to the direction of the gereral motion.

The refiftances arife ultinately irom the action of the planed. water on the internal furface of the chanal, and muit be proportional (cateris paribus) to the extent of the action. Therefore if we unfold the whole edge of this fection, which is rubbeci as it weee by the paffing water, we flall have a meafure of the exient of thisis action. In a pipe, circular or prifmatic3i, the whole circumference is acted on; but in a river or canal ACDQ, (fig. 6.) the horizontal line $a \mathrm{O} e$, which makes the upper boundary of the fection $a \mathrm{CD} e$, is free from all action. The action is confined to the three lines a $\mathrm{C}, \mathrm{CD}, \mathrm{D} e$. We flall call this line aCDe the border of the fection.

The mean velocity is that with which the whole fection, moving equally, would generate a folid equal to the expence of the ftream. This velocity is to be found perhaps but in one filament of the fiream, and we do not know in which filament it is to be found.

Since we are attempting to eftablifh an empirical theory of the motion of rivers, founded entirely on experiments and palpable deductions from them; and fince it is extremely difficult to make experiments on open ftreams which fhall have a precifion fufficient for fuch an important purpofe-it would be a moft defirable thing to demonttrate an exaet analogy beikeen the mutual balancing of the acceleration and refiftance in pipes and in rivers; for in thofe we can not only make experiments with all the defired accuracy, and admitting precife mealures, but we can make them in a number of caies that are almoft impractic,sle in rivers. We can increafe the flope of a pipe from nothing to the vertical pofition, and we can empley every delired degrec of preflure, fo as to afcertein its effect on the velocity is degrees which open flreams will not admit. The Chevalier de Buat has mott happily fucceeded in this demonftration ; and it is here that his geod fortune and his peretration have done fo much fervice to practical fcience.
Let $A B$ (fig. 7.) be a horizont:l tube, through The accelsWhich the water is impelled by the prefiure or HEan ration anal D.1. This head is the moving power; and it may be fintarce of cunceived as confiting of two parts, performing two horizorial dilitinct offices. One of thom is employed in impref horizor fing on the water that velocity with which it affualy Fig. 7 . moves in the tube. Were there no cbflructions to this novtion, no greater head would be wanted ; but there are obfructions arifing from frillion, achefion, and wifcidity. I his reequires force. Let this be the office of the reft of the head of water in the refervoir. I hare is but one allumment, appropriation, or reparition, of the whols head which will anfuct. Suprofe E to be
the point of partition, fo that DE is the head necerfary for imprefing the actual velocity on the water (a leead or prefluse which has a relation to the form or circumfance of the entry, and the contiaction which takes pace there). The rel? E.A is whing e.m.poued in overcoming the fimulaneous reffances in wich take place along the whole tube AB , and is in cquill lio with this refi.tance. Therefore if we appiy at E a tul) EC of the lame length and diameter with $\wedge \mathrm{B}$, and having the lame degree of polihh or runglatis; and if this tube be inclined in such a manner that t.e axis of its ext=eminy may coincide with the axis of $\triangle B$ in the poiat C -ve affirn that the velucity wat be the fame in boch pipes, and that they will have the fame expence; for the mowing force in the doping pipe EC is compoled of the whole weizat of thee culumn DE and the relative ::cisht of the culum EC; but this relative weig, by winch alone it defcends along the inclined pipe EC, is precifly equal to the wcight of a verticel csluma EA of the fame diamcter. Eveiy thing therefure is e, cai in the two pipes, viz. the lengths, the divm 'ers, he moving furces, and the reliftances; there:ore the vclocities and dicharges will alfo be cqual.

This is not only the cale on the whole, but alfo in everv fart of it. The relative weight of any part of it EK is precifly in equilibrio with the refilance; along that part of the pipe; for it has the fame pioportion to the whole relative weight that the relifince has to the whole refiltance. Therefore (and this is the noof important circumfance, and the lajis of the whole thecry) the pipe EC may be cut fhorter, or may be Iengthened to infinity, without making any change in the velocity or expence, fo long as the propelling head DE remains the fame.

Leaving the whole head DA, as it is, if we lengthen the horizontal pipe $A B$ to $G$, it is evident that we increale the refifance without any addition of force to overcome it. The velocity muft therefore be diminifhed ; and it will now be a velocity which is produced by 2 fmaller head than DE: therefore if we were to put ia a pipe of equal length at E , terminating in the horizontal line AG, the water will not run equally in both pipes. In order that it may, we muft difcover the diminifhed velocity with which the water now actually runs along AG, and we mult make a head DI capable of impreffing this velocity at the entry of the pipe, and then infert at I a pipe IH of the fame length with AG. The expence and velocity of both pipes will now be the fame $(A)$.

What has now been faid of a horizontal pipe $A B \underbrace{\text { Theury. }}$ would havc been equally true of any inclined pipe $A B, 4^{42}$
$A^{\prime} B$ (fig. 8.). Drawing the horizontal line $C B$, we or fee that DC is the whole head or propelling prefluice or it on for ei.her pipe $A B$ or $A^{\prime} B$; a ad in UI is the head ne-nje
 for balancing the reitlar:cis; and the pipe LF of we fame length rith $\triangle B$, and icorninating in the fame horizonal line, will have the fame velocity; and its inchination beng thus determined, it will have the dame velocity and expence whatever be its let ght.
Thus we fee that the moior in any pipe, horizontal Ara ay or floping, nay be referred to or fublituted for the betwecen motion in another inclined pipe, whofe head of water, thcis pivers above the place of entry, is that productive of the nctual mum ravelocity of the water in the pipe. Norr, in this cale, in De the accelerating force is equal to the reffance: we puat. may therefore confider this lat pipe as a river, of which the bed and the tlope are uniform or conitant, and the curtent in a flate of permanency; and we now may cleariy draw this important cerclufion, that pipes anid open flicams, when in a ftate of permanency, perfectly refemble each other in the circumfances which are the immediate caufes of this permanency. The equilibrium between the accelcrating force obtains not only in general, but takes place through the whole length of the pipe or fiream, and is predicable of every individual tranfuerfe fection of either. To make this more palpably evident if pofible, let us confider a floping cylindrical pipe, the current of which is in a flate of permanency. We can conceive it as confifting of two half cylinders, an upper and a lower. Thefe are running together at an equal pace; and the filaments of each immediately contiguous to the feparating plane and to each other, are not rubbing on each other, nor affecting each others motions in the fmalleft degres. It is true that the upper half is pre? Ging on the lower, but in a direction perpendicular to the motion, and therefore not affecting the velocity; and we flall fee prefently, that although the lower fide of the pipe bears fomewhat more preffure than the other, the retirlances are not changed. (Indced this odds of preflure is accompanied with a difference of motion, which need not be confidered at prefent; and we may fuppofe the pipe fo fmall or fo far below the furface, that this fall be infenfible). Now let us fuppofe, that in an inftant the upper half cylinder is annihilated: W'e then have an open ftream; and every circumftance of accelerating force and of rcfiftance remains precifely as it was. The motion muft therefore continue as it did;

[^5]did; and in this fate the only accelerating force is the flope of the furface. The demonfration therefore is complete.

From thefe obfervations and reafonings we drav a general and important conclufion, "That the fame ill be fufceptible of different velocities, which ic will sowe uniform to any diftance, according as it has dif reme meifuations; and each inclination of a pipe of given diam or has a certain velocity peculiar to itfelf, which will be maintained uniform to any diftance whatever; and this velocity increafes continually, according to Yome law, to he difcovered by theory or experiment, as the pofition of the pipe changes, from being horizontal till it becomes vertical ; in which pofition it has the greateft uniform velocity poffible relative to its inclination, or depending on inclination alone.

Let this velocity be called the train, or the rate of each pipe.

It is evident that this principle is of the utmoft confequence in the theory of hydraulics; for by experiment we can find the train of any pipe. It is in train when an increafe of length makes no change in the velocity. If lengthening the pipe increafes the velocity, the flope of the pipe is too great, and vice verfa. And having difcovered the train of a pipe, and obferved its velocity, and computed the head productive of this relocity with the contraction at the entry, the remainder of the head, that is the flope (for this is equivalent to EA), is the meafure of the refiftance. Thus we obtain the meafure of the refiftance to the motion with a given velocity in a pipe of given diameter. If we change only the velocity, we get the meafure of the new refiftance relative to the velocity; and thus difcover the law of relation between the refiftance and velocity. Then, changing only the diameter of the pipe, we get the meafure of the refiftance relative to the diameter. This is the aim of a prodigious number of experiments made and collected by Buat, and which we fhall not repeat, but only give the refults of the different parts of his inveltigation.
We may exprefs the flope of a pipe by the fymbol $\frac{\mathrm{I}}{\mathrm{s}}$, I being an inch for inflance, and $s$ being the flant length of a pipe which is one inch more elevated at one end than at the other. Thus a river which has a declivity of an inch and a half in 120 fathoms or $864^{\circ}$ inches, has its flope $=\frac{1 \frac{1}{2}}{8640^{\prime}}$, or $\frac{1}{57^{60}}$. But in order to obtain the bydraulic flope of a conduit pipe, the heights of the refervoir and place of difclarge being given, we muft fubtract from the difference of elevation the height or head of water neceffary for propelling the water into any pipe with the velocity V , which it is fuppofed actually to have. This is $\frac{V^{2}}{505}$. The remainder $d$ is to be confidered as the height of the declivity, which is to be dittributed equally over the whole length $l$ of the pipe, and the flope is then $\frac{d}{l},=\frac{1}{s}$.

There is another important view to be taken of the ilope, which the reader fhould make very familiar to his thoughts. It exprefies the pronortion between the weight of the whole column which is in motion and the weight which is employed in overcoming the refifance; and
the refiflance to the motion of any column of svater is equal to the weight of that column multiplied by the fraction $\frac{1}{s}$, which exprefles its flope.

We come now to confider more particularly the refiltances which in this manner bring the motion to a flate of uniformity If we confider the refiface fate of which arife from a caufe analogous to friction, we fee that they mult depend entirely on the inertia of the water. What we call the reliffance is the diminution of a motion which would have obtained but for thefe refiftances; and the beft way we have of meafuring them is by the force which we muft employ in order to keep up or reflore this motion. We ellimate this motion by a progreffive velocity, which we meafure by the expence of water in a given time. We judge the velo. city to diminifh, when the quantity difcharged diminifhes; yet it may be otherwife, and probably is otherwife. The ablolute velocity of many, if not all, of the particles, may cven be increafed; but many of the motions, being tranfverfe to the general direction, the quantity of motion in this direction may be lefs, while the fum of the abfolute motions of all the particles may be greater. When we increafe the general velocity, it is not unreafonable to fuppofe that the impulfes on all the inequalities are increafed in this proportion; and the number of particles thus impelling and deflected at the fame time will increafe in the fame proportion. The whole quantity therefore of thefe ufelefs and loft motions will increafe in the duplicate ratio of the velocities, and the furce neceffary for keeping up the motion will do fo alfo; that is, the refiftances fhould increafe as the fquares of the velocities.

Or if we confider the refiftances as arifing merely from the curvature of the imperceptible internal motions occafioned by the inequalities of the fides of the pipe, and as meafired by the forces neceffary for producing thefe curvilineal motions; then, becaufe the curves will be the fame whatever are the velocities, the deflecting forces will be as the fquares of the velocities; but thefe deflecting forces are preflures, propagated from the parts urged on preffed by the external force, and are proportional to thefe external preflures by the principles of hydroftatics. Therefore the preflurcs or forces neceflary for keeping up the velocities are as the fquares of thefe velocities; and they are our only meafures of the refiftances which muft be confidered as following the fame ratio. Whatever view therefore we take of the nature of thefe refiitances, we are led to confider them as proportional to the fquares of the velocities.

We may therefore exprefs the refiftances by the fymbol $\frac{\mathrm{V}^{3}}{m}, m$ being fome number to be difcovered by experiment. Thus, in a particular pipe, the diminution of the motion or the refifiance may be the 1000th part of the fquare of the velocity, and $\mathrm{R}=\frac{\mathrm{V}^{2}}{1000}$.

Now if $g$ be the accelerating power of gravity on any particle, $\frac{g}{s}$ will be its accelerating power, by which it would urge it town the pipe whofe flope is $\frac{1}{5}$. There-

Theory. fore, by the principle of uniforisi motion, the equality of the accelerating force, and the refiltance, we thall have $\frac{\mathrm{r}^{2}}{m=}=\frac{g}{s}$, and $\mathrm{V} \sqrt{ }=\sqrt{m g}$; that is, the product of the velocity, and the reciprocal of the fquare root of the flope, or the quotient of the velocity divided by the flope, is a conflant quantity $\sqrt{m g}$ for any given pipe; and the primary formula for all the uniform velocities of one pipe is $\mathrm{V}=\frac{\sqrt{m g}}{\sqrt{s}}$.

Mr Buat therefore examined this by experiment, but found, that even with refpect to a pipe or channel which was uniform throughout, this was not true. We could give at once the final formula which he found to exprefs the velocity in every cafe whatever; but this would be too empirical. The chief fteps of his very fagacious inveftigation are infructive. We fhall therefore mention then briefly, at leaft as far as they tend to give us any collateral information; and let it always be noted, that the inftruction which they convey is not abftract fpeculation, but experimental truths, which muft ever remain as an addition to our ltock of knowledge, although Mr Buat's deductions from them fhould prove falfe.

He found, in the firf place, that in the fame channel the produet of V and $\sqrt{ } \sqrt{s}$ increafed as $\sqrt{s}$ increafed; that is, the velocities increafed fafter than the fquare roots of the flope, or the refiftances did not increafe as faft as the fquares of the velocities. We beg leave to refer our readers to what we faid on the refiftance of pipes to the motion of fluids through them, in the article Pneumatics, when fpeaking of bellows. They will there fee very valid reafons (we apprehend) for thinking that the refiftances muft increafe more flow. ly than the fquares of the velocities.

It bcing found, then, that $\mathrm{V} \sqrt{s}$ is not equal to a conflant quantity $\sqrt{m g}$, it becomes neceffary to inveftigate fome quantity depending on $\sqrt{ } s$, or, as it is called, fome function of $\sqrt{ } \bar{s}$, which flaall render $\sqrt{m g}$ a conftant quanlity. Let X be this function of $\sqrt{s}$, fo that we hall always have IX equal to the conflant quantity $\sqrt{m g}$, or $\frac{\sqrt{m g}}{\mathrm{X}}$ equal to the actual velocity V of a pipe or channel which is in train.

Mr Buat, after many trials and reflections, the chief of which will be mentioned by and by, found a value of X which correfponded with a vaft variety of 隹es and v tlocities, from motions almof imperceptible, in a bed nearly horizontal, to the greateft velocities which could be produced by gravity alone in a vertical pipe; and when he compared them together, he found a very difcertible relation between the refflances and the magnitude of the fection: that is, that in two channels which had the fame flope, and the fame projelling force, the velocity was greateft in the channel which had the greateft fection relative to i!s border. This may reafomably be expected. The refitances arife from the mutual action of the water and this border. The water immediately contiguous to it is retarded, and this retards the next, and fo on. It is to be expeated, therefore, that if the border, and the velocity, and the fone, i.e he fame, the dimination of this suld

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city will be fo much the lefs as it is to be flared among a greater number of particles; that is, as the area of the fection is greater in proportion to the extent of its border. The diminution of the general or medium velocity muit be lefs in a cylindrical pipe than in a fquare one of the fame area, becaufe the border of its fection is lefs.

It appears evident, that the refiftance of each particle is in the direct proportion of the whole refiftance, and the inverfe proportion of the number of particles which receive equal fhares of it. It is therefore directly as the border, and inverfely as the fection. Therefore in the expreffion $\frac{\mathrm{V}^{2}}{\mathrm{~m}}$ which we have given for the refiftance, the quantity $m$ cannot be conflant, except in the fame channel ; and in different channels it muft vary along with the relation of the fection to its border, becaufe the refiftances diminifh in proportion as this relation increafes.

Without attempting to difcover this relation by theoretical examination of the particular motions of the various filaments, Mr Buat endeavoured to difcover it by a comparifon of experiments. But this required fome manner of fating this proportion between the augmentation of the fection and the augmentation of its border.

His fatement is this: He reduces every fection to a rectangular parallelogram of the fame area, and having its bafe equal to the border unfolded into a ftraight line. The product of this bafe by the height of the rectangle will be equal to the area of the fection. Therefore this height will be a reprefentative of this variable ratio of the fection to its border (we do not mean that there is any ratio between a furface and a line: but the ratio of fection to fection is different from that of border to boider; and it is the ratio of thefe ratios which is thus exprefied by the height of this restangle). If S be the fection, and B the border, $\frac{S}{B}$ is eridently a line equal to the height of this rectangle. Every fection being in this manner reduced to a rectangle, the perpendicular height of it may be called the hydraulic mean depth of the fection, and may be exprefed by the fymbol $d$. (Buat calls it the mean radius). If the channel be a cylindrical pipe, or an open balf cylinder, it is evident that $d$ is half the radius. If the fection is a rectangle, whofe width is $w$, and beight $h$, the mean depth is $\frac{w h}{b+2 h}$, \&c. In general, if $q$ reprefent the proportion of the breadth of a rectangular canal to its depth, that is, if $q$ be made $=\frac{w}{h}$, we fhall have $d=\frac{w}{q+2}$, or $d=\frac{q h}{q+2}$.

Now, fince the refillances muft augment as the proportion of the border to the fection augments, $m$ in the formulas $\frac{\mathrm{V}^{\mathrm{z}}}{\mathrm{m}}=\frac{g}{s}$ and $V \sqrt{ } / s=\sqrt{m g}$ muf follow the proportions of $d$, and the quantity $\sqrt{m g}$ mu $A$ be proportional to $\sqrt{ } d$ for different channels, and $\frac{a^{\prime} m g}{\sqrt{d}}$ fould Le a coniant quanti.y in every cafe.

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A rpecious sbjection

Our author was autare, however, of a very fpecious $o^{1}$ 'j: $:$ tion to the ciofe dependence of the refiftance on the cxtent of the border ; and that it might be faid that a double border did not occafion a double refintance, unlers the preflure on ail the parts was the farce. For it may be naturally (and it is gencrally) fuppofed, that the iefilance will be greater when the preffure is greater. The friction or refiltance analogous to friction may therefore be greater on an inch of the bottom than oa an inch of the fides; but M. d'Alembert and many others have demonftrated, that the paths of the filaments will be the fame whatever be the preliures. This mi! hht terve to jultify our ingenious author; but he was determined to reft every thing on cxperiment. He therefore made an experiment on the ofcillation of water in fyphons, which we have repeated in the following form, which is affected by the fame circuminances, and is fufceptible of rnuch greater precition, and of more extenive and important application.

The two veffels ABCD, abod (fig. 9.) were connected by the fyphon EFG $g f c$, which turned round in the fhort tubes E and e, without allowing any water to efcape; the axes of thele tubes being in one ftraight line. The veffels were about 10 inclies deep, and the branches FG, $f g$ of the fyphon were about five feet long. The veffels were fet on two tables of cqual height, and (the hole ebeing flopped) the vefiel ABCD, and the whole fyphon, were filled with water, and rvater was poured into the veffel $a b c d$ till it flood at a certain height LM. The fyphon was then turned into a horizontal pofition, and the plug drawn out of $e$, and the time carefully noted whicl the water employed in rifing to the level $\mathrm{HK} k / 2$ in both veffels. The whole apparatus was now inclined, fo that the water ran back into $A B C D$. The fyphon was now put in a vertical pofition, and the experiment was repeated. - No fenfible or regular difference was obferved in the time. Yet in this experiment the preffure on the part $\mathrm{G} g$ of the fyphon was more than fir times greater than before. As it was thought that the friction on this finall part (only fix inches) was too fmall a portion of the whole obflruction, various additional obffructions were put into this part of the fyphon, and it was even lengthened to nine feet ; but fill no remarkable diference was obferved. It was even thought that the times were leis when the fyphon was vertical.
Thus M. De Buat's opinion is completely juftified ; and he may be allowed to affiert, that the refiftance depends chiefly on the relation between the fection and its border; and that $\frac{\sqrt{m g g}}{\sqrt{d}}$ fhould be a confaat 'guantity.

Co afcertain this point was the object of the next feries of experimerts: to fee whether this quantity was really conflant, and, if not, to difcover the law of its wariation, and the phyfical circumftances which accompanied the variations, and may therefore be confidered es their caules. A careful comparifon of a very great number of experiments, made with the fame flope, and with very different channels and velocities, howed that $\sqrt{m g}$ did not follow the proportion of $\sqrt{d}$, nor of any power of $\sqrt{d}$. This quantity $\sqrt{m g}$ increaled by fmaller degrees in proportior as $\sqrt{d}$ was greater.

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In very great beds $\sqrt{n!g}$ was nearly proportional to $\sqrt{\bar{d}}$, but in fmalier channels, the velocities diminihed much more than $\sqrt{d}$ did. Cafting about for fome way of accommodation, Mr Buat confidcred, that fome approximation at leaft would be had by tahing off from $\sqrt{d}$ fome conflant fmall quantity. Tlis is evident : For fuch a diminution will have but a trifing effiect when $\sqrt{d}$ is great, and its effect will increafe rapidly when $\sqrt{d}$ is very fmall. He therefore tried various values tor this fubtraction, and compared the refults with the former experiments ; and he found, that if in every cafe $\sqrt{d}$ be diminifhed by one-tenth of an inch, the calculated difcharges would agree very exactly with the experiment. Therefore, inftead of $\sqrt{d}$, he makes ufe of $\sqrt{d}-0.1$, and finds this quantity always proportional to $\sqrt{m g}$, or finds that $\frac{\sqrt{m g}}{\sqrt{d}-0.1}$ is a con:flant quantity, or very nearly fo. It varied from 297 to 287 in all fections from that of a very fmall pipe to that of a little canal. In the large fections of canals and rivess it diminifhed ftill more, but never was lefs than 256.

This refult is very agreeable to the moft diftinet no-The refurt tions that we can form of the mutual actions of the agreeable water and its bed. We fee, that when the motion of to our diwater is obffrueted by a folid body, whicly deffects the timeteft nopaffing filaments, the dillurbance does not extend to tions of the any confiderable diftance on the two fides of the body. water and In like manner, the fmall diturbances, and impercep-its bed, tible curvilineal motions, which are occafioned by the infinitefimal inequalities of the channel, muft extend to a very finall diftance indeed from the fides and bottom of the channel. We know, too, that the mutual adhefion or attraction of water for the folid bodies which are moiftened by it, extends to a very fmall diftance; which is probably the fame, or nearly fo, in all cafes. Mr Buat obferved, that a furface of 23 fquare inches, applied to the furface of ftagnant water, lifted 1601 grains; another of 5 ? fquare inches lifted 365 : this was at the rate of $6_{5}$ grains per inch nearly, making a columu of about one-fixth of an inch high. Now this effect is very much analogous to a real contraction of the capacity of the channcl. The water may be conceived as nearly flagnant to this fmall diftance from the border of the feetion. Or, to fpeak more accurately, the diminution of the progreflive velocity occafioncd by the friction and adhetion of the fides, decreafes very rapidly as we recede from the fides, and ceafes to be fenfible at a very fmall diftance.

The writer of this article verified this by a very fimple and conand inftructive experiment. He was making experiments firmed by on the production of vortices, in the manner fuggefted by experiSir Ifaac Newton, by whirling a very accurate and ment. fmoothly polifhed cylinder in water; and he found that the rapid motion of the furrounding water was confined to an exceeding fmall diftance from the cylinder, and it was not till after many revolutions that it was fenfible even at the diffance of half an inch. We may, by the way, fuggelt this as the bell form of experiments for examining the refiftances of pipes. The motion excited by the wbirling cylinder in the ftagnant water is equal and oppofite to the motion ioff by water paffing along a

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$\sqrt{\prime} \bar{d}-0.1$
Since we have $\frac{\sqrt{\pi n g}}{\sqrt{d}-2.1}=297$, we have alfo
$r=\frac{\overline{297^{2}}}{5} \sqrt{\sqrt{6}-0 . x^{2}},=\frac{88209}{3^{62}}(\sqrt{d}-0.1)^{2},=$
$243.7(\sqrt{d}-0.1)^{2}$. This we may exprefs by $n(\sqrt{d}-0.1)^{3}$. And thus, when we have exprefied the effect of friction by $\frac{\mathrm{V}^{3}}{\mathrm{~m}}$, the quantity $m$ is variable, and its general value is $\frac{V^{2}}{n(\sqrt{d}-0.1)^{2}}$, in which $n$ is an invariable abitract number equal to 243.7 , given by the nature of the refittance which water fullains from its bed, and which indicates its intenfity.

And, lafly, fince $n=n(\sqrt{d}-0.1)^{2}$, we have $\sqrt{m_{g}}=\sqrt{n_{g}}(\sqrt{\prime} d-0.1)$, and the exprefion of the velocity V , which water acquires and maintains along anv channel whatever, now becomes $\mathrm{V}=$ $\frac{\sqrt{n_{\xi}}(\sqrt{d}-0.1)}{\mathrm{X}}$, or $\frac{297(\sqrt{d}-0.1)}{\mathrm{X}}$, in which X is alfo a variable quantity, depending on the flope of the furface or channel, and exprefling the accelerating force which, in the cafe of water in train, is in equilibrio with the refiftances expreffed by the numerator of the fraction.

Having fo happily fucceeded in afcertaining the variations of refiltance, let us accompany M. Buat in his inveftigation of the law of acceleration, expreffed by the value of X .

Experience, in perfect agreement with any diffinct ooinions that we can form on this fubject, had already fhoyed him, that the refiftances increafed in a flower ratio than that of the 〔quares of the velocities, or that the velocities increafed flower than $\sqrt{\mathrm{s}}$. Therefore, in the formula $\mathrm{V}=\frac{\sqrt{n g}(\sqrt{ } d-0.1)}{\mathrm{X}}$ which, for one channel, we may exprefs thus, $\mathrm{V}=\frac{\mathrm{A}}{\mathrm{X}}$, we muft admit that X is fenfibly equal to $\sqrt{s}$ when the Iope is very fmall or $s$ very great. But, that we may accurately exprefs the velocity in proportion as the flope augments, we muft have X greater than $\sqrt{ } \overline{5} ;$ and moreover.

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$\frac{\sqrt{s}}{\mathrm{X}}$ mult increale as $\sqrt{s}$ diminifies. Thefe coriditions are nece ${ }_{\text {ary }}$, that our values of V , deduced fro:n the formula $\mathrm{V}=\frac{\Lambda}{\mathrm{X}}$, may agree with the experiment.

In order to comprehend every degree of flope, we mult particularly attend to the notion through pipes, becaufe open canals will not furnilh us with inttances of exact trains with great flopes and velocities. We can make pipes vertical. In this cafe $\frac{\mathrm{T}}{\mathrm{s}}$ is $\frac{\mathrm{T}}{1}$, and the velocity is the greatef poffible for a train by the action of gravity: Bat we can give greater velocities than this by increafing the head of water beyond what produces the velocity of the train.

Let AB (fig. te.) be a vertical tube, and let $\mathrm{CA}^{-}$Fit. to. be the head competent to the velocity in the tube, which we fuppofe to be in train. The glope is $\mathbf{I}$, ard the full weight of the column in motion is the precile meafure of the refiftaice. The value of $\frac{t}{\mathrm{~s}}$, confidered as a flope, is now a maximum ; but, confidered os exprefing the proportion of the weight of the column in motion to the weight which is in equilibrio with the refiltance, it may not be a maximum; it may furpafs uni. ty, and $s$ may be lefs than I . For if the veffel be filled to E, the head of water is increafed, and will produce a greater volocity, and this will produce a greater refiltance. The velocity being now greater, the head EF which imparts it muft be greater than CA. But it will not be equal to EA, becaufe the uniform velocities are found to increafe falter than the fquare roots of the pre⿻ures. This is the general fuct. Therefore F is above A , and the weight of the column FB , now employed to overcome the refiffance, is greater than the weight of the column AB in motion. In fuch cafes, therefore, $\frac{\mathrm{I}}{\mathrm{s}}$, greater than unity, is a fort of fictitious flope, and only reprefents the proportion of the refirtance to the weight of the moving column. This proportion mav furpafs unity.

But it carnot be infinite: For fuppofing the head of water infinite; if this produce a finite velocity, and we deduct from the wbole height the height correfponding to this finite velocity, there will remain an infinite head, the meafure of an infinite refiflance produced by a finite velocity. This does not accord with the oblerved law of the velocities, where the refiftances actually do not increafe as falt as the fquares of the velocities. Theren fore an infinite head would have produced an infinite velocity, in oppofition to the refiffances: taking off the head of the tube, competent to this velocity, at the entry of the tube, which head would alfo be infinite, the remainder would in all probability be finite, balancing a finite refiftance.
Therefore the value of $s$ may remain finite, although the velocity he infinite; and this is agreeable to all our cleareft notions of the reliflances.

Adopting this principle, we muft find a value of X which will anfwer all thefe conditions. 2. It muit be fenfibly proportional to $\sqrt{s}$, while $s$ is great. It muft always be lefs than $\sqrt{s}$. 3 . It muft deviate from the proportion of $\sqrt{s}$, fo much the more as $\sqrt{s}$ is fraller: 4. It muft not vanifh when the velocity is infinite. s . It muft agree with a range of experiments with every variety of channel and of flope.

We fhall underfland the nature of this quantity X better y reprefenting by lines the quantities concerned in forming it.

I the velocities were exactly as the fquare roots of
Fig. 11. the flopes, the equilateral hyperbola NKS (fig: II.) betiveen its affymptotes $\mathrm{MA}, \mathrm{AB}$, would reprefent the equation $\mathrm{V}=\frac{\mathrm{A}}{\sqrt{s}}$. The values of $\sqrt{s}$ would be reprefented by the abfififa, and the velocities by the ordinates, and $V \sqrt{ }=\mathrm{A}$ would be the power of the hyperbola. But fince thefe velocities are not fenfibly equal to $\frac{A}{\sqrt{s}}$ except when $\sqrt{s}$ is very great, and deriate the more from this quantity as $\sqrt{s}$ is fmaller; we may reprefent the velocities by the ordinates of another curve PGT, which approaches very near to the hyperbola, at a great diflance from A along AB ; but feparates from it when the abfcifiæ are fmaller: fo that if AQ reprefents that value of $\sqrt{ } s$ (which we have feen may become lefs than unity), which correfponds to an infinite velocity, the line QO may be the allymptote of the new curve. Its ordinates are equal to $\frac{A}{X}$ while thofe of the hyperbola are equal to $\frac{A}{\sqrt{s}}$. Therefore the ratio of thefe ordinates or $\frac{\sqrt{ } s}{\mathrm{X}}$ fhould be fuch that it fhall be fo much nearer to unity as $\sqrt{s}$ is greater, and fhall furpafs it fo much the more as $\sqrt{ } s$ is fmaller.

To exprefs X, therefore, as fome function of $\sqrt{ } s$ fo as to anfwer thefe conditions, we fee in general that X muft be lefs than $\boldsymbol{V}$ s. And it muft not be equal to any power of $\sqrt{ } s$ whofe index is lefs than unity, becaufe then $\frac{\sqrt{ } s}{X}$ would differ fo much the more from unity as $\sqrt{s}$ is greater. Nor muft it be any multiple of $i s$ fuch as $q V s$, for the fame reafon. If we make $\mathbf{X}=\sqrt{ } s-K, K$ being a conftant quantity, we may anfwer the firft condition pretty well. But $\bar{K}$ mnft be very fmali, that X may not become equal to nothing, except in fome exceedingly fmall value of $\sqrt{ } / \mathrm{s}$. Now the experiments will not admit of this, becaufe the ratio $\frac{\sqrt{\prime} s}{\sqrt{ } s-K}$ does not increafe fufficiently to correspond with the velocities which we obferve in certain flopes, unlefs we make K greater than unity, which again is inconfiftent with other experiments. We learn from fuch canvaffing that it will not do to make K a conftant quantity. If we fhould make it any fractionary power of $\sqrt{ } \sqrt{ }$, it would make. $X=0$, that is, nothing, when $s$ is $=1$, which is alfo contrary to experience. It would feem, therefore, that nothing will anfwer for K but fome power of $\sqrt{ } / 5$ which has a variable index. The logarithm of $\sqrt{s}$ has this property. We may therefore try to make $\mathrm{X}=\sqrt{ } s-\log . \sqrt{ } s$. Accordingly if we try the equation $V=\frac{A}{\sqrt{ } \text {--hyp. log. } \sqrt{ } s}$, we thall find a

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very great agreement with the experiments till the declivity becomes confiderable, or about $\frac{3}{2}$, which is much greater than any river. But it will not agree with the velocities obferved in fome mill courfes, and in pipes of a ftill greater declivity, and gives a velocity that is too fmall; and in vertical pipes the velocity is not above one half of the true one. We ghall get rid of moft of thefe incongruities if we make $K$ confift of the hyperbolic logarithm of $\sqrt{\&}$ augmented by a fmall conitant quantity, and by trying various values for this conftant quantity, and comparing the refults with experiment, we may hit on one fufficiently exact for all practical purpofes.
M. de Buat, after repeated trials, found that he would have a very great conformity with experiment. by making $K=\log \cdot \sqrt{s+1.6}$, and that the velocities exhibited in his experiments would be very well reprefented by the formula $V=\frac{297(\sqrt{d}-0.1)}{\sqrt{s}-L \sqrt{s+1.6}}$.

There is a circumftance which our author feems to Mutualad have overlooked on this occafion, and which is undoubt- hefion of edly of great effect in thefe motions, viz. the mutual ad- the parhefion of the particles of water. This caufes the water water. which is defcending (in a vertical pipe for example) to drag more water after it, and thus greatly increafes its velocity. We have feen an experiment in which the water iflued from the bottom of a refervoir through a long vertical pipe having a very gentle taper. It was 15 fect long, one inch diameter at the upper end, and two inches at the lower. The depth of the water in the refervoir was exactly one foot; in a minute there were difcharged $2 \frac{9}{30}$ cubic feet of water. It muft therefore have iffued through the hole in the bottom of the refervoir with the velocity of 8.85 feet per fecond. And yet we know that this head of water could not make it pafs through the hole with a velocity greater than 6.56 feet per fecond. This increafe muft therefore have arifen from the caufe we have mentioned, and is a proof of the great intenfity of this force. We doubt not but that the difcharge might have been mucb more increafed by proper contrivances; and we know many inffances in water pipes where this effect is produced in a very great degree.

The following cafe is very diftinct: Water is brought An actual into the town of Dunbar in the county of Ealt Lothian ${ }^{\text {cafe }}$ from a fpring at the diftance of about 3200 yards. It is conveyed along the firt 1100 yards in a pipe of two inches diameter, and the declivity is 12 feet 9 inches; from thence the water fows in a pipe of $1 \frac{1}{2}$ diameter, with a declivity of 44 feet three inches, making in all 57 fcet. When the work was carried as far as the twoinch pipe reached, the difcharge was found to be 27 Scotch pints, of $103 \frac{7}{2}$ cubic inches each in a minute. When it was brought into the town, the difcharge was 28. Here it is plain that the defcent along the fecond fretch of the pipe could derive no impulfion from the firft. This was only able to fupply 27 pints, and to deliver it into a pipe of equal bore. It was not equivalent to the forcing it into a fmaller pipe, and almost doubling its velocity. It muft therefore have been dragged into this fmaller pipe by the weight of what was defcending along it, and this water was exerting a force equivalent to a head of 16 inches, increafing the velocity from 14 to about 28 .

It muft be oblerved, that if this formula be juf, there can be no declivity fo fmall that a current of waproves that ter will not take place in it. And accordingly none provestaller bas been obferved in the furface of a ftream when this declivity did not happen. But it alfo fhould happen with rewill pro-
duce a cur- pect to any declivity of bottom. Yet we know that duce a cur- water will hang on the floping. furface of a board with-
rent. rent. out proceeding further. The caufe of this feems to be the adhefion of the water combined with its vilcidity. The vicidity of a fluid prefents a certain force which mult be overcome before any current can take place.

A feries of important experiments were made by our author in order to afcertain the relation betwecn the velocity at the furface of any fream and that at the bottom. Thefe are curious and valuable on many accounts. One circumftance deferves our notice here, viz. that the difference between the /uperficial and bottom velocities of any Aream are proportional to the Square roots of the Juperficial velocities. From what has been already faid on the gradual diminution of the velocities among the adjoining filaments, we muft conclude that the fame rule holds good with refpect to the velocity of feparation of two filaments immediately adjoining. Hence we learn that this velocity of feparation is in all cafes indefinitely fmall, and that we may, without danger of any fenfible error, fuppofe it a conftant quantity

We think, with our ingenious author, that on a review of thefe circumftances, there is a conflant or invariable portion of the accelerating force employed in overcoming this vifcidity and producing this mutual fe paration of the adjoining filaments. We may exprefs this part of the accelerating force by a part $\frac{1}{\mathrm{~S}}$ of that flope which conftitutes the whole of it. If it were not employed in overcoming this refitance, it would produce a velocity which (on account of this refiftance) is not produced, or is lof. This would be $\frac{\text { A }}{\sqrt{ } S-\bar{L} \sqrt{ } S}$ This muft therefore be taken from the velocity exhibited by our general formula. When thus corrected, it
would become $\mathrm{V}=(\sqrt{d}-0.1)\left(\frac{\sqrt{m g}}{\sqrt{s}-\mathrm{L} \sqrt{s+1.6}}\right.$ $\left.-\frac{\sqrt{n g}}{\sqrt{S}-\mathrm{L} \sqrt{S}}\right)$. But as the term $\frac{\sqrt{n g}}{\sqrt{S}-\mathrm{L} \sqrt{ } S}$ is compounded only of conftant quantities, we may exprefs it by a fingle number. This has been collected from a fcrupulous attention to the experiments (efpecially in canals and great bodies of water moving with very fmall velocities; in which cafe the efferts of vifcidity muft become more remarkable), and it appears that it may be:valued at $\sqrt{\overline{\text { inch }}} 0.09$ or 0.3 inches : very nearly.

From the wbole of the foregoing confiderations, drawn from nature, fupported by fuch reafoning as our moft diftinet notions of the internal motions will admit, and authorifed by a very extenive comparifon
with experiment, we are now in a condition to conclude a complete formula, exprefive of the uniform motion of water, and involving every circumftance which appears to have any flare in the operation.

Therefore, let
V reprefent the mean velocity, in inches per fecond, Formula of any current of water, running uniformly, or which exprefing is In TRAIN, in a pipe or - open charinel, whofe fec- the uniform tion, figure, and flope, are conflant, but its length in- water. definite.
$d$ the hydraulic mean depth, that is, the quotient arfing from dividing the fection of the channel, in fquare inches, by its border, espreffed in linear inches.
$s$ The flope of the pipc, or of the farface of the current. It is the denominator of the fraction expreffing this flope, the numerator being always unity; and is had by dividing the expanded length of the pipe or channel by the difference of height of its two extremities.
$g$ The velocity (in inches per fecond) which a heavy body acquires by falling during one fecond.
$n$ An abifract conftant number, determined by experiment to be 243.7.

L The hyperbolic logarithm of the quantity to which it is prefixed, and is had by multiplying the common. logarithm of that quantity by 2.3026 .

We fhall have in every inftance

$$
\mathrm{V}=\frac{\sqrt{n g}(\sqrt{d}-0.1)}{\sqrt{s}-\mathrm{L} \cdot \sqrt{s+1.6}}-0.3(\sqrt{d}-0.1)
$$

This, in numbers, and Englifh meafure, is

$$
\mathrm{v}=\frac{307(\sqrt{d}-0.1)}{\sqrt{s}-\mathrm{L} \sqrt{\sqrt{s+1.6}}}-0.3(\sqrt{d}-0.1)
$$

## And in French meafure

$$
\mathrm{V}=\frac{297(\sqrt{d}-0.1)}{\sqrt{s}-\mathrm{L} \sqrt{s+1.6}}-0.3(\sqrt{d}-0.1)
$$

The following table contains the real experiments from which this formula was deduced, and the comparifon of the real velocities with the velocities computed by the formula. It conifits of two principal fets of experiments. The firft are thofe made on the motion of water in pipes. The fecond are experiments made on open canals and rivers. In the firft fet, column ift contains the number of the experiment; 2 d , the length of the tube; 3 d , the height of the refervoir ; 4 th, the values of $S$, deduced from column fecond and third; 5 th gives the obferved velocities; and 6th the velocities calculated by the formula.

In the fecond fet, column 2 d gives the aref of the fection of the channel; 3d, the border of the canal or circumference of the fection, deducting the horizontal width, which fuftains no frietion; $4^{\text {th }}$, the fquare reot $\sqrt{d}$ of the hydraulic mean depth; sth, the denominator S of the flope ; 6 th, the obferved meari velocities; and $7^{\text {th }}$, the mean velocities by the formula. In the laft ten experiments on large canals and a natural rive w? the 6th column gives the obferved velocities at the : furface.


Set I. Experiments on Pipes.
Experiments by Chevalier De Buat.
taining the taining the ments from which the formula is deduced.


Vertical Tube $\frac{3}{5}$ a a Line in Diameter and $\sqrt{4}=0.117_{7} 81$.

| 1 | Inch. | Inch. | Inch. | Inch. | Inch. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 2 | 12 | 16.166 | 0.75636 | 11.704 | 12.006 |
| 2 | 12 | 13.125 | 0.9307 | 9.753 | 10.576 |

Vertical Pipe $1 \frac{1}{2}$ Lines Diameter, and $\sqrt{\bar{d}}=0.176776$ Inch.

| 3 | 34.166 | 42.166 | 0.9062 | 45.468 | 46.210 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 4 | Do. | 38.32 .3 | 0.9951 | 43.156 | 43.721 |
| 5 | Do. | 36.666 | 1.0996 | 42.385 | 42.612 |
| 6 | Do. | 35.333 | 1.0781 | 41.614 | 41.714 |

The fame Pipe Horizontal.

| 7 | 34.166 | 14.583 | 2.5838 | 26.202 | 25.523 |
| ---: | :---: | :---: | :---: | :---: | :---: |
| 8 | Do. | 9.292 | 4.0367 | 21.064 | 19.882 |
| 9 | Do. | 5.292 | 7.036 | 14.642 | 14.447 |
| 10 | Do. | 2.083 | 17.6378 | 7.320 | 2.351 |

Vertical Pipe 2 Lines Diameter, and $\sqrt{d}=0.204124$.

| 11 | 36.25 | 51.250 | 0.85451 | 67.373 | $6+.945$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 12 | Do. | 45.250 | 0.96338 | 59.605 | 60.428 |
| 13 | Do. | 41.916 | 1.03808 | 57.225 | 57.838 |
| 14 | Do. | 38.750 | 1.12047 | 54.186 | 55.321 |

Same Pipe with a flope of $\frac{1}{1.3024}$.
$15|36.25| 33.500|1.29174| 51.151 \mid 50.983$
Sane Pipe horizontal.

| 16 | 36.25 | 15.292 | 2.7901 | 33.378 | 33.167 |
| :--- | :--- | ---: | :---: | :---: | :---: |
| 17 | Do. | 8.875 | 4.76076 | 25.430 | 24.553 |
| 18 | Do. | 5.292 | 7.89587 | 19.940 | 18.313 |
| 19 | Do. | 2.042 | 20.01637 | 10.620 | 10.492 |

Vertical Pipe $2{ }_{2}{ }^{\circ}$. Lines Diameter, and $\sqrt{d}=0,245798$.

| 20 | 36.25 | 53.250 | 0.95235 | 85.769 | 85.201 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 21 | Do. | 50.250 | 1.00642 | 82.471 | 82.461 |
| 22 | Do. | 48.333 | 1.0444 | 8.646 |  |
| 23 | Do. | 48.333 | 1.0444 | 79.948 | 80.698 |
| 24 | Do. | 47.916 | 1.0529 | 81.027 | 80.318 |
| 25 | Do. | 44.750 | 1.1241 | 76.079 | 77.318 |
| 26 | Do. | 41.250 | 1.2157 | 73.811 | 73.904 |

The fame Pipe with the flope $\frac{1}{1.3024}$.
${ }_{27}|36.25| 37.5 \mid 1 \mathbf{1 . 3 3 2 3 | 7 0 . 8 2 2 | 7 0 . 1 3 8}$

The fame-Pipe Horixontaid.

| $\mathrm{N}^{\circ}$ | $\begin{aligned} & \text { Length } \\ & \text { of } \\ & \text { Pipe. } \end{aligned}$ | $\begin{gathered} \text { Height } \\ \text { of } \\ \text { Reforvoir. } \end{gathered}$ | Values of $s$. | Velocities obferved. | Veloc:ties calculated. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inch. | Inch | Inc |  | Inch. |
| 28 | 36.2 | 20. | 2.4303 | 5 | 50.140 |
| 29 | Do. | 9.083 | $5 \cdot 2686$ | 33.577 | 32.442 |
| 30 | Do. | 7.361 | 6.4504 | 28.658 | 28.801 |
| 31 | Do. | 5. | 9.3573 | 23.401 | 23.195 |
| 32 | Do. | 4.916 | $9 \cdot 5097$ | 22.989 | $22.97+$ |
| 33 | Do. | 4.83 .3 | 9.6652 | 22.679 | 22.754 |
| 34 | Do. | 3.708 | 12.4624 | 19.587 | 19.550 |
| 5 | Do. | 2.713 | 16.3135 | 16.63 s | 16.324 |
| 36 | Do. | 2.083 | 21.6639 | 14.295 | 14.003 |
| 7 | Do. | 1. 625 | 27.5102 | 12.680 | 12.115 |
| $3^{8}$ | Do. | 0.833 | 52.3427 | 7.577 | 8.215 |

Pipes fenfibly Horizontal $\sqrt{ }=2.5$, or I Inch Diameter.

| 39 | 117 | 36 | 5.6503 | 84.945 | 85.524 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 117 | 26.666 | $7 \cdot 4^{8}$ | 71.301 | 72.617 |
| 41 | 138.5 | 20.950 | 10.3215 | 58.808 | 60.634 |
| 42 | 117 | 18 | 10.7880 | 58.310 | $58.47^{2}$ |
| 43 | 138.5 | 6 | 33.1962 | 29.341 | 29.663 |
| 44 | 737 | 23.7 | $33.665^{8}$ | 28.669 | 29.412 |
| 45 | Do. | 14.6 | 54.2634 | 21.856 | 22.056 |
| 46 | Do. | 13.7 | 57.7772 | 20.970 | 21.240 |
| 47 | Do. | 12.32 | 64.1573 | 19.991 | 19.950 |
| $4^{8}$ | Do. | $8.96\}$ | 87.8679 | 16.625 ? | 16.543 |
| 49 | Do. | 8.965 | 87.8679 | 16.284 | 15.543 |
| $5 ?$ | Do. | 7.780 | 101.0309 | 15.112 | 15.232 |
| 51 | Do. | 5.93 | 132.1617 | 13.315 | 13.005 |
| 52 | Do. | 4.2 ? | 7 | 10.671 ? | 10.656 |
| 53 | Do. | 4.2 J | 7 | $10.44{ }^{1}$ J |  |
| 54 | ${ }^{1} 38.5$ | 0.7 | 257.8863 | 8.689 | 8.82 .4 |
| 55 | 737 | 0.5 | 1570.75 | 3.623 | 3.218 |
| 56 | 77 | 0.15 | $5^{11} 3.42$ | 1. $5^{89}$ | 1.647 |

## Experiments by the Abbe Bossur.

Horizontal Pipe I Inch Diameter $\sqrt{d}=0.5$.
57
58
$8 \mid$
600
600
12
4
$\left|\begin{array}{c}54.5966 \\ 161.312\end{array}\right|$
22.282
12.223
21.975
11.756

Horizontal Pipe IT $_{3}^{7}$ Inch Diameter $\sqrt{4}=0.5774$.

| 59 | 360 | 24 | $19.0-81$ | 48.534 | 49.515 |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 60 | 720 | 24 | 33.6566 | 34473 | 35.130 |
| 61 | 360 | 12 | 37.8828 | 33.160 | 33.106 |
| 62 | 1080 | 24 | 48.3542 | 28.075 | 28.211 |
| 63 | 1440 | 24 | 64.1806 | 24.024 | 24.023 |
| 64 | 720 | 12 | 66.3020 | 23.360 | 23.345 |
| 65 | 1800 | 24 | 78.0532 | 21.032 | 21.182 |
| 66 | 2160 | 24 | 92.9474 | 18.896 | 19.096 |
| 67 | 1080 | 12 | 95.8756 | 18.943 | 18.749 |
| 68 | 1440 | 12 | 125.6007 | 16128 | 15.991 |
| 69 | 1800 | 12 | 155.4015 | 14.066 | 14119 |
| 70 | 2160 | 12 | 185.2487 | 12.560 | 12.750 |

Horizontal Pipe 2.01 Isck. D.ameter $\sqrt{d}=0.708946$.

| $\mathrm{N}^{3}$ | Lengtis of Pipe. | Heieht II Reforvoir. | Fa'ues of 8. | Velocities obferved. | Ve'orities calculated. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 71 | 360 | 24 | 21.4709 | 58.903 | 58.8 .3 |
| 72 | 720 | 24 | 35.8082 | 43. | 43.136 |
| 73 | 360 | 12 | 41.2759 | 40.322 | 39.587 |
| 74 | 1080 | 24 | 50.4119 | $35 \cdot 765$ | 35.296 |
| 75 | $144^{\circ}$ | $2+$ | 65.1448 | 30.895 | 30096 |
| $7^{5}$ | 720 | 12 | 70.1426 | 29.215 | 28.795 |
| 77 | 1820 | 24 | 79.8 ¢ 87 | 27.470 | 26.639 |
| 78 | 2160 | 24 | 94.790 1 | 27.731 | 24.079 |
| 79 | 1080 | 12 | 99.4979 | 23.806 | 23.400 |
| 80 | $144^{\circ}$ | 12 | 129.0727 | 20.707 | 20.076 |
| 81 | 1800 | 12 | 158.7512 | 18.304 | 17.788 |
| 82 | 2160 | 12 | 188.5179 | 16.377 | 16.097 |

$M_{r}$ Couplet's Experiments at Verfailles.
Pipe 5 Inclies Diameter $\sqrt{d}=1.11803$.

| 83 | 8.4246 | 25 | 3378.26 | 5.323 | 5.287 |
| :--- | :--- | :--- | ---: | ---: | ---: |
| 84 | Do. | 24 | 3518.98 | 5.213 | 5.163 |
| 85 | Do. | 21.083 | 405.66 | 4.806 | 4.887 |
| 86 | Do. | 16.750 | 5041.61 | 4.127 | 4.225 |
| 87 | Do. | 11.333 | $7+50.42$ | 3.154 | 3.388 |
| S3 | Do. | 5.583 | 15119.96 | 2.011 | 2.254 |

Pipe 18 Inches Diameter $\sqrt{\bar{d}}=2.1211_{3} 2$. $89|43200|{ }^{1} 45.083|324.973| 39.159 \mid 40.510$

Set II. Experiments with a Wooden Canal.


Trapesium Canal.

|  | Inch. | Inch. | Incin. | Inch. | Inch. | Inch. |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 90 | 1888 | 13.06 | 1.22107 | 212 | 27.51 | 27.19 |
| 91 | 50.60 | 29.50 | 1.3006 | 212 | 28.92 | 29.88 |
| 92 | 83.43 | 26. | 1.7913 | 412 | 27.14 | 28.55 |
| 93 | 27.20 | 15.31 | 1.3329 | 427 | 18.28 | 20.39 |
| 94 | 39.36 | 18.13 | 1.4734 | 427 | 22.30 | 22.71 |
| 95 | 5.44 | 20.37 | 1.5736 | 427 | 22.37 | 24.37 |
| 96 | 56.43 | 21.50 | 1.6201 | 427 | 23.54 | 25.14 |
| 97 | 98.74 | 28.25 | 1.8696 | 432 | 28.29 | 29.06 |
| 98 | 100.74 | 28.53 | 1.8791 | 432 | 28.52 | 29.23 |
| 99 | 119.58 | 31.06 | 1.9622 | 432 | 30.16 | 30.60 |
| 100 | 126.20 | 31.91 | 1.9987 | 432 | 31.58 | 31.03 |
| 101 | 130.71 | 32.47 | 1.2064 | 432 | 31.89 | 31.32 |
| 102135.32 | 33.03 | 1.0241 | 432 | 32.32 | 31.61 |  |
| 103 | 20.83 | 13.62 | 1.2367 | 1728 | 8.94 | 8.58 |
| 104 | 34.37 | 17. | 1.4219 | 1728 | 9.71 | 9.98 |
| 105 | 36.77 | 17.56 | 1.4471 | 1728 | 11.45 | 10.17 |
| 206 | 42.01 | 18.69 | 1.4992 | 1728 | 12.34 | 10.53 |

## Refangular Canal,

$$
\begin{aligned}
& \begin{array}{c|c}
1.0 & \begin{array}{c}
\text { Seet } \\
\text { cf } \\
\text { Canal. }
\end{array} \\
\hline 107 & 34.50 \\
108 & 86.25 \\
109 & 34.50 \\
110 & 35.22 \\
111 & 51.75 \\
112 & 76.19 \\
113 & 125.78 \\
114 & 69 . \\
115 & 155.25
\end{array} \\
& \begin{array}{l}
\begin{array}{l}
\text { Earder } \\
\text { of } \\
\text { Canal. }
\end{array} \\
\hline 21.25 \\
27.25 \\
21.25 \\
21.33 \\
23.25 \\
26.08 \\
29.17 \\
25.25 \\
35.25
\end{array}
\end{aligned}
$$

Set III. Experiments on the Canal of Jard.

| No | $\begin{gathered} \text { Section } \\ \text { Cat al. } \end{gathered}$ |  | $\begin{aligned} & \text { Values } \\ & \text { of } 1 \sqrt{d} . \end{aligned}$ | $\left\|\begin{array}{c} \text { Values } \\ \text { ol } s . \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & \text { Velof ity } \\ & \text { off. at } \\ & \text { Surface } \end{aligned}\right.$ | Velocity calculaled. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 116 | 16252 | 402 | 6.3583 | 8919 | 17.42 | 18.77 |
| 117 | 11905 | 366 | 5.70320 | 11520 | 12.17 | 14.52 |
| 118 | $10+75$ | 360 | $5 \cdot 39+2$ | 15.360 . | 15.74 | 11.61 |
| 119 | 758 | 370 | 4.8074 | 21827 | 9.61 | 8.38 |
| 120 | 7376 | 337 | 4.6784 | 27648 | 7.79 | $7 \cdot 67$ |
| 121 | 6125 | $3^{2}+$ | 4.3475 | 1276481 | 7.27 | 6.55 |

Experiments on the River Haine.

| Nc | Section <br> of <br> River. | Border <br> of <br> River | Values <br> of $\sqrt{2}$ | Values <br> of: | Vclucity <br> at <br> Surface. | Velocity <br> (mean) <br> calcul. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 122 | $31.49^{8}$ | 569 | 7.43974 | 6048 | 35.11 | 27.62 |
| 123 | 3883 | 601 | 8.03879 | 6413 | 31.77 | 28.76 |
| 124 | 30905 | 568 | 7.37632 | 32951 | 13.61 | 10.08 |
| 125 | 39639 | 604 | 8.10108 | 35723 | 15.96 | 10.53 |

The comparifon mult be acknowledged to be moft fatisfactory, and flows the great penetration and addrefs of the author, in fo fucceffully fifting and appreciating the fare which each co-operating circumftance has had in producing the very intricate and conrplicated effect. It adds fome weight to the principles on which he has procetded in this analyfis of the mechanifm of hydraulic motion, and muft give us great confidence in a theory fo fairly eftablified on a very copious induction. The author offers it only as a ratio. The theors nal and well-founded probability. To this character it founded is certainly entitled; for the fuppofitions made in it probability, are agreeable to the moft diftinet notions we can form and of thefe internal motions. And it mult always be remembered that the inveftigation of the formula, although it be rendered fomewhat more perfpicuous by thas having recourfe to thofe notions, has no dependence on the truth of the principles. For it is, in fact, nothing but a claffification of experiments, which are grouped together by fome one circumflaice of flope, velocity, furm of fection, \&c. in order to difcover the law of the changes whish are induced by a variation of the

## $R$ I V E R.

 the circumitances which do not refemble. The procedure was precifely fimilar to that of the aftronomer when he deduces the elements of an orbi: from a multitute of obfervations. This was the tafk of M. de Buat; and' be candidly and modeitly informs us, that the finding out analytical forms of expreffion which would exhioit thefe C anges was the work of Mr Benezech de St Honoré, a young officer of engineers, and his colleague it the experimental courfe. It does honour to his fkill and addrels; and we think the whole both a pretty and infructive lpecimen of the method of difcuvering the laws of nature in the midit of complicated phenomena. Daniel Bernoulli firf gave the rules of this method, and they have been greatly improved by Lambert, Condorcet, and De la Grange. Mr Coulomb has given fome excellent examples of their application to the difcorery of the laws of friction, of magnetical and electrical attraction, \&cc. But this prefent work is the moft perficuous and familiar of them all. It is the empirical method of generalifing natural phenomena, and of deducing general rules, of which we can five no other demonitration but that they are faithful reprefentations of matters of fact. We hope that others, encouraged by the fuccefs of M. de Buat, will follow this example, where publie utility is preferred to a difplay of mathematical knowledge.Although the author may not have hit upon the precife modus operandi, we agree with him in thinking that nature feems to act in a way not unlike what is here fuppofed. At any rate, the range of experiments is fo extenfive, and fo multifarious, that few cafes can occur which are not included among them. The experiments will always retain their value (as we prefume that they are faithfully narrated), whatever may become of the theory; and we are confident that the formula will give (u) anfiwer to any queflion to which it may be applicable infnitely preferable to the vague guefs of the mofl fagacicus and experienced engineer.

We mult however oblerve, that as the experiments on pipes were all made with fcrupulous eare in the contrivance and execution of the apparatus, excepting only thofe of Mr Couplet on the main pipes at Verfailles, we may prefume that the formula gives the greateft velocities which can be expected. In ordinary works, where joints are rough or leaky, where drops of folder hang in the infide, where cocks irtervere with deficient watex-ways, where pipes have aukward bendings, contractions, or cnlargements, and where they may contain fand or nir, we frould reckon on a fmaller velocity than what refults from our calculation; and we prefume that an undertaker may wih confidence promife $\frac{4}{5}$ of this quantity without any rifk of difappointing lis employer. Whe imugine that the atual performance of Lanals will be much rearer to the formula.

We have made inquiry after works of this kind exeruted in Britain, that we might compaze them with the formula. But all our canals are locked and without notion; and we have orly learned by an accidental in:ornation from $\operatorname{Mr}$ Watt, that a caral in his neighbnurkood, which is 18 feet wide at the fufface, and feven feet at the bottom, si.l. four feet deep, and has a lope of one inch in a quaticr of a nile, runs with the elocity of 17 inches per fecond at the furface, 10 at be botiom, $2 n^{1}$ is to the middle. If we compute
the motion of this canal by our formula, we fhall find the mean velocity to be $13 \frac{1}{3}$

No river in the world has had its motions fo much Ccrutinized as the Po about the end of the laft century. It had been a fubject of 100 years continual litigation between the inhabitants of the Bolognefe and the Ferrarefe, whether the waters of the Rheno fhould be thrown into the Tronco de Venezia or Po Grande. This occafoned very numerous meafures to be taken of its feclions and declivity, and the quantities of water which it contained in its different ftates of fullnefs. But, unfortunately, the long eftablifhed methods of meafuring waters, which were in force in Lombardy, made no account of the velocity, and not all the intreaties of Cailelli, Grandi, and other moderns, could prevail on the vifitors in this procefs to deviate from the eftablifhed methods. We have therefore no minute accounts of its velocity, though there are many rough eftimates to be met with in that valuable collection publifhed at Florence in 1723 , of the writings on the motion of rivers. From them we have extracted the only precife obfervations which are to be found in the whole work.

The Po Grande receives no river from Stellata to Obbetva. the fea, and its flope in that interval is found mof fur-tiess on prifingly uniform, namely fix inches in the mile (redu- the veloced to Engliih meafure). The breadth in its great city of the frefhes is 759 feet at Lago Scure, with a very uniform depth of $3_{1}$ feet. In its loweft fate (in which it is called Po Magra), its breakth is not lefs than 700, and its depth about $10 \frac{1}{2}$.

The Rbeno has a uniforro declivity from the Ponte Emilio to Vigarano of 15 inches per mile. Its breadth in its greateft frefhes is 189 feet, and its depth 9 .

Signor Corrade in his report fays, that in the flate of the great fremes the velocity of the Rheno is moft exaetly $\frac{4}{5}$ of that of the Po.

Grandi fays that a great frefh in the Rheno employs 12 hours (by many obfervations of his own) to come from Ponte Emilio to Vigarano, which is 30 miles. This is a velocity of 44 inches per fecond. And, by Corrade's proportion, the velocity of the Po Grande muft be 55 inches per fecond.

Montanari's obfervation gives the Po Magra a velocity of $3 t$ inches per fecond.

Let us compare thefe velocities with the velocities calculated by Buat's formula.

The hydraulic mean depths $d$ and D of the Rheno and $P o$ in the great freflies deduced from the above meafures, are 98,6 and 344 inches ; and their flopes s

$\frac{307(\sqrt{D}-0.1)}{\sqrt{\bar{S}}-\sqrt{5+1.6}}-0.3(\sqrt{D}-0.1)=52.176$ inches and $\frac{307(\sqrt{d}-0.1)}{\sqrt{s}-\text { I. } \sqrt{s+1.6}}-0.3(\sqrt{d}-0.1)=46.727$
inches.

Thefe refults differ very little from the velocities above mentioned. And if the velocity correfponding to a depth of 3! feet be deduced from that olferved by Montanari in the Po Magra 10 feet detp, on the fuppofition that they are in the proportion of $\checkmark^{\prime} d$, it will be found to lie about $5 . \frac{4}{4}$ inches per fecond.

This comparifon is therefore highly to the credit of

## Part I.

the theory, and would have been very agrecable to M. de Buat, had he known it, as we hopc it is to our readers.

We have collected many accounts of water pipes, and made the comparifon:, and we flater ourfelves that thefe have enabled us to improve the theory. They fhall appear in their proper place; and we may juf obferve here, that the two-inch pipe, which we tormerly fpeke of as conveying the water to Dunbar, fhould have yielded only $25^{2}$ Scotch pints per minute by the formula, inttead of 27 ; a fmall error.

We have, therefore, no hentation in faying that this fingle formula of the uniform motion of water is one of the moft valuable prefents which natural fcience and the arts have received during the courfe of this century.

We hoped to bave made this fortunate inveltigation of the chevalier de Buat ftill more acceptable to our readers by another table, which thould contain the va-
Jues of $\frac{307}{\sqrt{s}-\mathrm{L} \sqrt{s+1.6}}$ ready calculated for every declivity that can occur in water pipes, canals, or rivers. Aided by this, which fuperfedes the only difficult part of the computation, a perfon could calculate the velocity for any propofed cafe in lefs than two minutes. But we have not been able to get it ready for its appearance in this article, but we fhall not fail to give it when we refume the fubject in the article WATERWorks; and we hope even to give its refults on a fcale which may be carried in the pocket, and will enable the unlearned practitioner to folve any queftion with accuracy in half a minute.

We have now eftablifhed in fome meafure a Theory of Hydraulics, by exhibiting a general theorem which exprefles the relation of the chief circumftances of all fuch motions as have attained a ftate of permanency, in fo far as this depends on the magnitude, form, and flope of the channel. This permanency we have expreffed by the term Train, faying that the fream is in train.

We proceed to confider the fubordinate circumftances contained in this theorem ; fuch as, Iff, The forms which nature or att may give to the bed of a running ftream, and the manner of expreffing this form in our theorem. 2d, The gradations of the velocity, by which it decreafes in the different filaments, from the axis or moft rapid filament to the border; and the connection of this with the mean velocity, which is expreffed by our formula. 3d, Having acquired fome diltinet notions of this, we fhall be able to fee the manner in which undilurbed nature works in forming the beds of our rivers, the forms which the affects, and which we muft imitate in all their local modificationss if we would fecure that permanency which is the evident aim of all her operations. We fhall here learn the mutual aetion of the current and its bed, and the circumftances which enfire the falility of both. Thefe we may call the regimen or the confervaion of the ftream, and may fay that it is in regiment, or in confcruation. This has a relation, not to the dimenfions and the flope alone, or to the accelerating force and the refiftance arifing from mere inertia; it refpects imme riately the tar acity of the bed, and is different from the train.

## Yol. XVIII. Part I.

$4^{\text {th }}$, Thefe pieces of information will explain the de- Theory. siation of rivers from the rectilineal courfe; the refillance occafioned by thefe deviations; and the circumfances on which the reginen of a winding Atream deperds.

## § 1. Uf the Forms of the Channel.

The numerator of the fraction which expzefies the The fem., velocity of a river in train has $\sqrt{d}$ for one of its fac- circular tors. That form, therefore, is moff favourable to the form mourable motion which gives the greateft value to what we have to motion, called the hydraulic mean depth $d$. This is the pretogative of the femicircle, and here $d$ is cyual to half the radius; and all other figures of the lime area are the more farourable, as they approach nearer to a femicircle. This is the form, therefore, of all conduit pipes, and fhould be taken for aqueducts which are built of mafonry. Eafe and accuracy of execution, however, have made engineers prefer a rectangular form; but neither of thefe will do for a channel formed out of the ground. We fhall foon fee that the femicircle is incompatible but incom. with a regimen ; and, if we proceed through the regu-patible lar polygons, we fhall find that the halt hexagon is the with regienly one which has any pretentions to a regimen; yet meo. experience fhows us, that even its banks are too fleep for almoft any foil. A dry earthen bank, not bound together by grafs roots, will hardly ftand with a flope of 45 degrees ; and a canal which conveys running waters will not ftand with this flope. Banks whofe bafe Banks that is to their height as four to three will ftand very well in fland beft. moift foils, and this is a flope very ufually given. 'This form is even affected in the fpontaneous operations of nature, in the channels which flie digs for the rills and rivulets in the higher and fleeper grounds.

This form has fome mathernatical and mechanical properties which intille it to fome further notice. Let ABEC (fig. 12.) be fuch a trapezium, and AHGCFig. 12. the rectangle of equal width and depth. Bifect HB and EG by the verticals FD and KI, and draw the verticals $b \mathrm{~B}, e \mathrm{E}$. Becaufe $\mathrm{AH}: \mathrm{HB}=3: 4$, we have $\mathrm{AB}=5$, and $\mathrm{BD}=2$, and $\mathrm{FD}=3$; and $\mathrm{BD}+\mathrm{DF}=$ BA. From thefe premifies it follows, that the trapezium ABEC has the fame area with the rectangle; for HB being bifected in D , the triangles $\mathrm{ACF}, \mathrm{BCD}$ are equal. Alfu the border ABEC, which is touched by the pafling flream, is equal to FDIK. Therefore the mean deplh, which is the quotient of the area divided by the border, is the fame in both; and this is the cafe, whatever is the width BE at the bottom, or even though there be no rectangle fuch as $b \mathrm{BE} e$ interpoled between the flant fides.

Of all rectangles, that whofe breadth is twice the But form height, or which is half of a fquare, gives the greateft of a chand mean depth. If, therefore, FK be double of FD, the ${ }^{\text {nel. }}$ trapezium ABEC, whick has the fane area, will have the largeft mean depth of any fuch trapezium, and will be the beft form of a channel for conveying running waters. In this cafe, we have $\mathrm{AC}=10, \mathrm{AH}=3$, and $\mathrm{BF}=2$. Or we may fay that the beft form is a trapezium, whofe buttom width is $\frac{2}{3}$ of the depth, and whofe extreme width is 3 . This form approaches very ne $r$ to that which the torrents in the hills naturally dig for themblecs in uniform fround, where their aclion is not chacked by ftones which they lay hare, or which they depolit in their courle. Thic thons us, and it will be full. contimed by and by, that the chamel of a rivir
is not a fortuitous thing, but lias a reintion to the cunfiliency of the foil and velocity of the Atrem.

A rectangle, whole breadth is $\frac{f}{3}$ of the depth of water, will therefore have the fame mean t.e h with a
 for this is the dimeafons when the rectangle 6 EE E is taken awn.y.

Let $A$ © the area of the fection of any chamel, wo its width (when rectangular), and $h$ its depth of weier. Then what we have called its mean depth, or $d$, will be $\frac{A}{w+2 h},=\frac{w / h}{w+2 h}$. Or if $q$ exprefies the ratio of the width to the depth of a rectangular bed ; that is, if $q=\frac{w}{i /}$, wh have a very finmple and ready expreffion for the mean depth, eiller from the width or depth. For $d=\frac{w}{q+2}$, or $d=\frac{q^{h}}{q+2}$.

Therefore, if the depth were infinite, and the width finite, we fho:ld have $d=\frac{z w}{2}$; on if the width be infinite, and the depth finite, we have $d=h$. And thefe are the 1 :mits of the valucs of $d$; and therefore in rivers whofe width is always great in comparifon of the depth for their hydraulic mean depth. Fience we derive a rule of eafy recollcation, and which will at all times give us a very near entimate of the velocity and expence of a running fream, viz. that the velocities are nearly as the fquare roots of the depths. We find this confirmed by many experimen's of Michelo!ti.

Alfo, when we are allowed to fuppofe this ratio of the veloci ics and depths, that is, in a rectangular canal of great breadth and fimall depth, we fiall have the quantities difcharged nearly in the propertion of the cubes of the velocities. For the quantity difcharged $d$ is as the ve'ocity and area jointly, that is, as the height and velocity jointly, becaute when the widh is the fame the area is as the height. Theerefore, we have $d=h \sigma$ But, by the above remark, $h \doteqdot v^{2}$. Therefore, $d \doteqdot$ $v^{3}$; and this is confirmed by the expe-iments of Bofiut, vol. ii. 236. Alfo, becaule $d$ is as $v h$, when $w$ is conflant, and by the above remak (allowable when $w$ is very great in proportiom to $h$ ) $v$ is as $\sqrt{ } / h$, we have $d$ as $h d h$, or $k \frac{1}{3}$, or the fquares of the difcharges propurtional to the cubes of the heights in rectangular beds, and in their correfponding trapeziums.
1 Knowing the mean depth and the pronortion of Rules for
fi di
i diucuation, fions of the bed, and we have $w=q d+2 d$, and $h=d$
2. If we know the area end mean depth, we can in like manner find the dimenfions, that is, $w$ an $1 h$; for $\mathrm{A}=w h$, and $d=\frac{w h}{w+2 h^{\circ}}$; therefore $w= \pm \sqrt{\frac{\pi^{2}}{4^{2}}-2 \mathrm{~A}}$ $+\frac{\mathrm{A}}{2 d}$.
3. If $d$ be known, and one of the dimenfions be given, we an find the other; for $d=\frac{w \cdot h}{w+2 / h}$ gives $u=\frac{2 h d}{h-d}, a \times d h=\frac{w d}{v-2 d}$

## E R.

4. If the velocily V and the flope S for a river in Theory. train be given, we can find the mean depth; for $\mathrm{V}=\underbrace{}_{73}$ $\left(\frac{297}{\sqrt{\text { S }} \mathrm{L} \sqrt{5}+1.6}-0.3\right)(+\bar{d}-0.1) . \quad$ Whence
we deduce $\sqrt{d}-0.1=\frac{\mathrm{V}}{\frac{297}{\sqrt{5}-1 \sqrt{5+1.0})}-0.3}$, and $\sqrt{d}=$ to this quantity +0.1 .
5. We can deduce the flope which will put in train ©cpe? a river whofe chanuel has given dimenfions. We makie $297(\sqrt{d}-0.1)$ $\frac{297(\sqrt{2}-0.1)}{\mathrm{V}+0.3 \sqrt{d}-0.1)}=\sqrt{ } \mathrm{S}$. This flould be $=\downarrow^{\prime} \mathrm{S}$ $-\mathrm{L} \sqrt{\mathrm{S}+1.6}$, which we correct by trials, which will be exemplified when we apply thefe doctrines to ptactice.

Having thus eftublifheri the relation between the different circumitances of the form of the channel to our general formula, we proceed to confider,

## § 2. Thie Gradations of Tclocing from the middite of the Strcann to the jides.

The knowledge of this is necuflary for underfanding the regimen of a river; for it is the velocity of the filaments in contact with the bed which produces any change in it, and occafions ary preferace of one to another, in refpect of regimen or ftability. Lid thele circumitances not operate, the water, twe to the laws of hodroulics, and confind within the bounds whi h have been effigncd thee,, woild neither enlage nor diminifl the area of the chamel. But this is all that we can promife of waters perfećly clear, running in pipes or lienn chamels. Lut rivers, brooks, and fmather fireams, carry along waters loaded with mud or fand, which they depofit wherever their velocity is checked; and they tear up, on the other hand, the matevials of the channel wherever their velocity is fuficieutly great. Nature, indeed, aims continually at an equilibrium, and works without ceafing to perpetuate her own performances, by eftablithing an equality of action and reaction, and proportioning the forms and direction of the motions to her agents, and to lecal circunftances. Her work is flow but uticeafing; and what the cannot accomplith in a year fle will do in a century. The beds of our risers have acquired fome flability, becaufe they are the labour of ages; and it is to tinie that we owe thofe deep and wide valleys which rective and confme our rivers in channels, which are now confolidated, and with flopes which have been gradually moderated, fo that they no longer either rarage our habitations or confound our boundarice. Art may imitate nature, and by direeting hos oncrations (which fie f:11 carries co achatule to cording to ber own imprefcriptble law.) according to in mivited our views, we car hation her progrefs, and accomplinatita mos our purpofe, duris the flant periud of human lititeams. Bu we cle, durl he form the alteralle of mechandin shat ous nature. Freq ently we remein ignorant of their foundation: but it is not neceffies for the profperity of the fult ie et that he lic the alents of the fenator; he can profit hy the of wute withut u derlarding its ercunds. I it $f_{0}$ in the picfeat infance. We tave nct as yet been able to infer the law of retardation obfericd

Theory., y

 does in t.ap to. bey $d$ our pu ers, if we ....ome, with Sir ladac Nemon, that the velucity of ainy particular flas: $\because$ is the arithmetical mean between thoie of the Fluments inm ci.telt adjoinarg. We may be aflured, then the flume ot in the axis of an inclined cylindtical tue e, of which the carrent is in train, morss the faftelt, and that all there in the fame circumference 10 und it are thoie which glide along the pipe. We may athim the fame thing of the motions in a femi-cylindrical inclined clanatel conveying an open itream. But even in thefe we have not yet demonitrated the ratio between the extreme velocities, nor in the different circles. This mult be dccided experimentally.

And here we are ulder great obligations to Mr de Buat. He has compared the velocity in the axis of a prodigious number and variety of itreams, differing in fize, form, llope, and velocity, and has computed in them all the mean velocity, by meafuring the quantities of water dicharged in a given time. His method of mea-

- furing the bottom ve'ocity was fimple and jurt. He threw in a gooi-berry, as ncarly as poffible of the fame ppeciic gravity with bie water. It was carrid along the bottum aimoft without towchi: $S$ it. See RESIsTANCE of Fiuids, $\mathrm{n}^{\circ}$ 6-.
He cifcovered the following laws: r. In fmall velo-

Laws ot the re oci ties of different 10 or. ti a - of the ת:саи.

halt fion of t on: Thus, if tle wloctey m wie nidale of the fream 'e 25 inches por ferem i, it 1.guare root is five; from which if we take unity, there remains four. The $\S_{\mathrm{z}}$ tare of ti is, or 16 , is the velocity at the bot.om, and $\frac{25+16}{2}$, or 205 , is the mean velocity.

This ta a veey cur in and $m$ it urfful piece of information. '1te velicily m the nifiedie of the flream is the eafieft me...ired of all, by arr-1ighe : iall body H ) ating down it ; ard tire m. a velorily is the the which regulates tuc train, the dricharge, the chect un ruacliies, and all the mut mportant conequences.
 coll-ation. Let V be the menn velucity, of the walo-h. . .t. city in the axis, and $u$ the velocity at the boitum; we 4 . have $u=\bar{v}-1,{ }^{2}$, and $\mathrm{V}=\frac{v+u}{2}$.

Alfo $v=\left(\sqrt{\text { T- }}+\frac{2}{2}\right)^{2}$, and $\varepsilon=\left(\sqrt{\bar{u}}+r^{23}\right.$. $V=\left(\sqrt{v}-\frac{1}{2}=+\frac{1}{4}\right.$, and $V=\left(\sqrt{u}+\frac{1}{2}\right)^{2}+\frac{1}{4}$. $u=\left(v^{\prime} v-11^{2}=d u=\left(\sqrt{v}-\frac{1}{v}\right)^{2}\right.$.
$A 1 \% v - u = 2 4 \longdiv { \mathrm { V } _ { - \frac { 1 } { 4 } } }$ and $v-\mathrm{V},=\mathrm{V}-u,=$ $\sqrt{\sqrt{-\frac{1}{7}}}$ : that is, the difference between thefe velocitics increafes in the ratio of the fquare roots of the mean velocities diminimed by a find. 1 contant qualitity.

This may perhaps give the mathematicians fome help in afcertaining the law of degradations from the axis to the fides. Thus, in a cylindrical pipe, we may o t.ceive the current as confifting of an infinite number of cy indrical fhells fliding within each ot her like the diaw tures of a fpy-glafs. Each of thefe is in equilibrio, or as much accelerated by the one within it as it is retarded sy the one without ; therefore as the momentum of each diminifhes in the proportion of its diameter (the thicknofs being fuppofed the fame in all), the velocity of feraration mult increafe by a certann law from the fives to the axis. The magnitude of the fmail couftant quantity here fpoken of feems to fix this law.

The place of the mean velocity could not be difco- P'ace ff vered with any precifion. In moderate velocilies it catan was not more than one fourth or onc-fith of the depth voof $r$ diftant from the bottom. In very great velocities it was $n$ vered, fenfibly higher, but never in the middle of ibe de th.

The knowledge of thefe three velocities is of great importance. The fuperficial vclocity is eafily ovierved; hence the mean velocity is eafily computed. This multiplied by the fection gives the expence; and if we alfo meafure the expanded border, and then obtain the mean depth (or $\sqrt{d}$ ), we can, by the formula of uniform motion, deduce the flope, or, knowing the flope, we can deduce any of the other circumfances.

The following table of thele three relocities will fave the trouble of calculation in one of the raoli frequent fructions of hydiaulics.




The knowledge of the velocity at the bottom is of the greateft ufe for enabling us to judge of the action of the ftream on its bed; and we fhall now make fome obfervations on this particular.

Every kind of foil has a certain velocity confiftent with the flability of the channel. A greater velocity would enable the waters to tear it up, and a fmaller velocity would permit the depofition of more moveable ma- terials from above. It is not enough, then, for the ftability of a river, that the accelerating forces are fo adjuffed to the fize and figure of its channel that the current may be in train: it muft alfo be in equilibria with the tenacity of the channel.

We learn from obfervation, that a velocity of three inches per fecend at the bottom will juft begin to work upon fine clay fit for pottery, and however firm and compait it may be, it will tear it up. Yet no beds are more flable than clay when the velocities do not exceed this: for the water foon takes away the impalpable particles of the furperficial clay, leaving the particles of fand ficking by their lower half in the reft of the clay, which they now protect, making a very permanent bot, 2om, if the fiream does not bring down grayel or coarfe Gand, which will iub off this very thin cruft, and allow,
another layer to be worn off; a velocity of fix inches will lift fine fand; eight inches will lift fand as coarfe as linfeed; 12 inches will fweep along fine gravel; 24 inches will roll along rounded pebbles an inch diameter; and it requires three feet per fecond at the bottom to fweep along fhivery angulas fones of the fize of an egg.

82 The manner in which unwearied nature carries on bow carrin fome of thefe operations is curious, and deferves to be ed on. noticed a little. All muf recollect the narrow ridges or wrinkles which are left on the fand by a temporary freth or illeam. They are obferved to lie acrofs the ftream, and each ridge confifts of a fleep face $\mathrm{AD}, \mathrm{BF}$ (fig. Ij.) which looks down the fream, and a gentler $F_{1}$ flope DB, FC, which conneats this with the next ridge.

Fig. 13. As the fleam comes over the firf fleep AD, it is directed atmoft perpendicularly againft the point E immediately. below. D , and thus it gets hold of a particle of coarfe fand; which it could not have detached from the reft had it been moving parallel to the furface of it. It eafily rolls it up the gentle flope EB; arrived there, the particle tumbles over the ridge, and lies clofe at the bottom of it at F , whete it is protected by the little eddy, which is formed in the very angle; other par-
ticles lying about $E$ are treated in the fame way, and, tumbling over the ridge B , cover the firt particie, and now protect it effectuatty from any further difturbance. The fame operation is going on at the bottom of cach ridge. The brow or theep of the ridge gradually advances down the fream, and the whole fet change their places, as reprefented by the dutted line $a d b f$; and after a certain time the particle whith was depofited at F is found in an unprotected fituation, as it was in E, and it now makes another. ftep down the ftream.

The Abbe Boflut found, that when the velocity of the ftream was jult fufficient for lifting the fand (and a fmall excefs hindered the operation allogether) a ridge advanced about 20 feet in a day.

Since the current carries off the moft moveable matters of the channel, it leaves the bottom covered with the remaining coarfe fand, gravel, pebbles, and larger fones. To thefe are added many which come down the ftream while it is more rapid, and alfo many which roll in from the fides as the banks wear away. All thefe form a bottom much more folid and immoveable than a bottom of the medium foil would have been. But this does not always maintain the channel in a permanent form ; but frequently occafions great changes, by obliging the current, in the event of any fudden frefh or fwell, to enlarge its bed, and even to change it altogether, by working to the right and to the left, fince it cannot work downwards. It is generally from fuch accumulation of gravel and pebbles in the bottom of the bed that rivers change their channels.

It remains to afcertain, in abfolute meafures, the force which a current really exerts in attempting to drag along with it the materials of its chamnel; and which will produce this effect unlefs refifted by the inertia of thefe materials. It is therefore of practical importance to know this force.

Nor is it abfrufe or difficult. For when a current is in train, the accelerating force is in equilibrio with the refitance, and is therefore its immediate meafure. Now this accelerating force is precifely equal to the weight of the body of water in motion multiplied by the fraction which expreffes the flope. The mean depth being equal to the quotient of the fection divided by the border, the fection is equal to the product of the mean depth multiplied by the border. Therefore, calling the border $b$, and the mean depth $d$, we have the fection $=d b$. The body of water in motion is therefore $d b s$ (becaufe $s$ was the flant length of a part whofe difference of elevation is 1 ), and the accelerating forces is $d b s \times \frac{1}{s}$, or $d b$. But if we would only confider this refilance as correfpouding to an unit of the length of the channẹl, we mult divide the quantity. $d b$ by $s$, and the refiftance is then $\frac{d b}{s}$. And if we would confider the refiftance only for an unit of the border, we muft divide this expreffion by $b$; and thus this refiftance (taking an inch for the unit) will be expreffied for one fruate inch of the bed by the weight of a bulk of water which has a fqurre inch for its bafe; and $\frac{d}{s}$ for its height And Kanily, if E be tation for any Eiven fuperficial cytent of the chilnnel or led, and $F$ the
obfruction, which we confider as a fort of friction, we Dall have $\mathrm{E}=\frac{\mathrm{E} d}{\mathrm{~s}}$.

Thus, let it be required to determine in pounds the refillance or friction on a fquare yard of a channel whofe current is in train, which is 10 fect wide, four feet deep, and has a flope of one foot in a mile. Here $E$ is nine fect. Ten feet widlh and four feet depth give a fection of 40 feet. The :border is 18 feet. Therefore $d=\frac{40}{18}=2.1111$, and $s$ is 5280 . Therefore the frietion is the weight of a column of water whofe bale is nine feet, and height $\frac{2.1111}{52.80}$, or nearly $3 \%_{0}^{\circ}$ ounces avoirdupois.
§ 3. Settlemont of the Beds of Rivers.
HE who looks with a carclefs eye at a map of the Simplicity world, is apt to confider the rivers which ramble over and wifdom its furface as a chance-medley difpofition of the drainers difplayed in which carry off the waters. But it will afford a moft ${ }^{\text {the conduct }}$ agreeable object to a confiderate and contemplative mind, to take it up in this very fimple light; and having confidered the many ways in which the drenched furface might have been cleared of the fuperfluous waters, to attend particularly to the very way which nature has followed. In following the troubled waters of a mountain torrent, or the pure freams which trickle from their bafes, till he fees them fwallowed up in the ocean, and in attending to the many varieties in their motions, he will be delighted with obferving how the fimple laws of mechanifm are made fo fruitful in good confequences, both by modifying the molions of the waters themfelves, and alfo by inducing new forms on the furface of the earth, fitted for re-acting on the waters, and producing thofe very modifications of their motions which render them fo beneficial. The permanent beds of rivers are by no means fortuitous gutters hatily fcooped out by dafhing torrents; but both they and the valleys through which they flow are the patient but unceafing labours of nature, prompted by goodniefs and directed by wifdom.
Whether we trace a river from the torrents which colle of the fuperfluous waters of heaven, or from the fprings which difcharge what would otherwife be condemned to perpetual inactivity, eacli feeder is but a little rill which could not ramble far from its ficinty fource among growing plants and abbortent earth, without being flucked up and evaporated, did it not meet with other rills in its courfe. When united they form a body of water fill inconfiderable, but much more able, by its bulk, to overcome the lite? offaciss to its motion; and the rivulet theri moves with greater fpecd, as we have now learned. At the fame time, the furface expofed to evaporation and abforption is "diminifhed by the union of the rills. Four equal rills hayc: only the furface of two when uniied. This she por. tion which efcapes arreftment, and travels doxrivara, , is continually increafing. This is a happy adjufment, to the other operations of nature. Were it otherwife, the lower and more valuable comstries wonld be Sadidu with the paffing, waters in addition to the owntwo
 would be atmoft covered by the frathe of the intcror
ce:m!ries. cominties. But, frouncty, th re paff waters oceupy lef room as they advance, and by this wife employment of th. molt limple nicans, not only are the lupcrfluous wates draind ofr in on on. fertiie fields, but the drai is thomfelves become an uffeful part of the countiy by their magnitude. Thwy become the habitation of a prodigious number of flhes, which frare the Creator's bounty ; and they becone the mee ns of mutual communication of all the bleffings of cultivated fociety. The vague ramblings of the riv's fcatter them over the face of the country, and bring the:n to every door. It is not even an indifierent circumftance, that they gathe: fleragth to cut out deep beds for themfelves. Dy this means they cut open many frings. Without this, the produce of a heary fhower would make a fivamp which would not dry up in many d.ys. And it mult be obferved, that the fame heat which is neceffaty for the vigurous growth of ufeful plants will produce a very copious evaporation. This muft return in thowers much too copious for immediate vegetation, and the overplus would be deliructive. Is it not pleafant to contemplate this adjufment of the great operations of nature, fo different from each other, that if chance alone directed the detail, it was almolt an infinite odds that the earth would be uninhabitable?

But let us follow the waters in their operations, and note the face of the countries through which they flow : attending to the breadth, the depth, and the flupe of the valleys, we thall be convinced that their prefent fituation is extremely different from what it was in ancient days; and that the valleys themfelves are the works of the rivers, or at leaft of waters which have defcended from the heights, loaded with all the lighter matters which they were able to bring away with them. The rivers flow now in beds which have a confiderable permarency; but this has been the work of ages. This has (iven Aftrilicy, both by filling up and fmonthing the val*. and thus leffening the changing crufes, and alfo by tardening the beds themfkives, which are now covered vilin aqutic piants, and lined with the flones, gravel, an-1 coarfer fold, out of $x$, ich all the lighter matters hriv. been w: ! d away.

The furfse of the 1 igh grounds is urlerer ing a contirual ct race; and the irround oa which ve n. ※ watk is by no 12, the fame thiol? was trodden by wur reno - arectors. The flowers from heaven carry down i : the mileys or fweep alorg ly the torrents, a part the foil which covers the heigits and fleep. The terrent c. rry thi fil ino the brooks, and t'efe deliver rart of it in'o the great rivers, and thefe diffaige into ti.e fea this ferilizing fit of thic eath, where it is froallowed $u \%$ a 4 frever loft or the purpofes of ve eation. Tlles the hillocis lofe of their height, the valleys are filled up, and the mivi ai s ars laid bare, and foow theit thene! pr ci,icms, which formerly were covered overy he? : Iffin, bat untw look like the fkeleron of thin itc. The low enn hites, raifed :and nouriflied f : fown time by the $f$ blan cof the ligh lands, will atll goont cir turn to be luried in the ocean; and th ? the e rth, reduced to a dreary flat, will beconte an inm ofe uni ha its/ic m.f. This cataltrople is for
 fire $\}$ is to $t \because$; and t.e tuitid labours of the hum: $n$


But, in the nuan time, we can trace a bencefecnt
purnofe, and a nice augud ment o. an ly remote circumitances. 'Il. e grounc's near the talats of all our rivers are indeed gradualiy deriped of their molt fertile ivgrecients. Du had th.cy ret:ined them lor ages, the fontient inin bitants of the carth, or at leat the noblerilp cyed animals, with man at their heed, would nothave derivei chatges nucl: advantage from it. The geheral laws of rature the) pis produce changes in our atmofphere which muft ever render thefe great elevation, unfruitful. That geniel warmth, which is equa" "y necefliry for the ufcrul plant as for the animal which lives on it, is confined to the lower grounds. The earth, which on the top of Nount Exemus could only brirg forth mofs and dittany, when brought into the gardens of Spalatro, produced pot-herbs fo luxuriant, that Dioclefian told his colleague Masimian that he had more p'cafure in their cultivation than the Roman empire could confor. 'Tlus nature not only provides us manure, but conveys it to our fields. She even keeps it fafe in fore for us till it fhall be wanted. The tracts of count:y which are but newly inhabiied by man, fuch as great part of America; and the newly difcovered regions of Terra Autfralis, are ftill almoft occupied by marflies and lakas, or covered with impenetrable forefls; ar:d they would remain long enough in this flate, if population, continually increafing, did not increafe induftry, and multiply the hands of cultivators along with their neceflities. The Author of Nature was alone able to form the huge ridges of the mountains, to model the Rillocks and the valleys, to mark out the couries of the great rivers, and give the firft trace to every rivulet; but has left to man the tafk of draining his own habitation and the fields which are to fupport him, becaufe this is a tank not beyond his powers. It was therefore of immonfe advantage to him that thofe parts of the globe into which he has not yet penetrated flould remain covered with lakes marlies, and forents, which keep in ftore the juice of the eark, which th:e influence of the air and the vivifying warmth of the fun rould have expended long ere now in ufclefs vegetation, and which the rains of heaven would have fivept into the fea, had they not been thus protected by their fituation or their c.wer. It is therefore the bufnel's of man to open up thefe mines of hoarded wealth, and to think the Author of all good, who has thus hufbanded them for his ufe, and left them as a rightful heritage for thofe of after days

The earth had not in the remote agcs, as in our day, thofe great cansls, thofe capacious voiders, always ready to drain off the rain witcrs (of which only part is abforbed by the thirlty ground), and the pure waters of the furings from the $f$ ot of the hills. The rivers did not then exitt, or were only torrents, whole waters, confined by the gullies and glens, are fearching for a place to efcaje. Iience arife thnfe numerous lakes in the interior of groat continents, of which there are fill remarkable relicks in North America, which in procels of time will difappear, and become champaign countries. The molt remote from the fea, unable to contain its waters, finds an iffue through fome gorge of the hills, and pours over its furcrifuous waters into a Inwer bafon, which, in is turn, difcharges its contents into another, and the laft of the chain delivers its water; by a river into the ocean. The commurica ion was originally begun ly a fimple overflowing at the loweft part of the margin. This made a torrent, which quickly

Theo.j. quickly deepened its bed, and this cireumillance increaEing its velocitv, as we have feen, would extend this duepuning ba-kuard to the lake, and draw of more of its yacts. The work $\%$ wid go on rapidly at firlh, while
 tu:e; but thele beins whed awis, nd the charmi

 unsle ailue whit it cunnot bicak oit, at. 1 thica a new discha.ge will comme.ce, and a qua: li y of llat ground will encro e all round the lake. Tlee torrent, in the mean time, malies its way down the cosntry, and dis s a cand, which may be calded the firtt fiketch of a river, which will deepha a wilen i.s bed ctn.inu:lly. The water of feveral bafors uniled, and rutuning togetler in a great oody, witl (a.corking to the princi.! we have eilathad have a mach greater velucity, with the f.m. tiupe, than wh ie of the 1.... in tie iaturior parts of the contixe t; d're itm of m all united in the baisa nexu dis fee, after having broken through its natural m-n. will male a prodicious torrent, which will ïf, toriflf a bed fo much the deeper as it has more flope and a greater body of waters.

The formation of the firlt valleys, by cutting open many fprings which wees formerly concealed under ground, will add to the mols of running waters, and contribure to drain off the waters of thele bafons. In courfe of time many of them will difuppear, and Hat valleys among the mountains and hills are the traces of their former exiltence.

When nature thes traces out the courfes of future rivers, it is to be expected that thofe ftreams will moft deepen their channels which in their approach to the fea receive into their bed the greateft quantilies of rain and fpring waters, and that towards the middle of the continent they will deepen thcir chamels lefs. In thefe laft fituations the natural flope of the fields caufes the raia-water, rills, and the litule rivulets form the fprings, to feek their ways to the rivers. The ground can fink only by the flattening of the hills and high grounds; and this mult proceed with exireme flownef, becaufe it is only the gentle, though inceffant, work of the rains and fprings. But the rivers, increaling in bulk an 1 ifrength, and of nece.fity flowing over every thing, form to themfelves capacious beds in a more yielding foil, and dig them even to the level of the ocean.

The beds of rivers by no means form themfelves in one inclined plane. If we fhould fuppofe a canal $A B$ (fig. 14.) perfecily itraight and horizontal at B, where it joins with the fea, this canal would really be an inclined channel of greater and greater lope as it is farther from B. This is evident; becaufe gravity is direeted towards the centre of the earth, and the angle CAB containcd between the channel and the plumb: line at A is fmaller than the fimilar engle CDB ; and confequently the inclination to the horizon is greater in A than in D. Such a canal therefore would make the bed of a river; and fome have thought that this was the real form of n.ture's work; bat the fuppofition is a whim, and it is fal'c. No river lias a flope at all approaching to this. It would be eipht inches declivity in the mile next the ocean, 24 inches in the fecond mile, 40 inches in the third, an foon in the durlicate ratio (for the whole •evetion) of the di lances from the fea. Such a river would quickly tcar up its bed in the
mountains (were there any grounds high enwerg to receive it), and, except its frit cafcade, would foon acquire a more mentle flope. luut the fact is, and it is the refult of the ingry criptible havs of nat ve, that the c nti ad track of a river is a facecfion oi i che t atannil , , wale floge dminikies by the es is th: iver ..ppros. hee to the fea. It isno ci ught to foy 1 it if re fu's frem the ti. tural in p of the canitis that? Whieh it flows, wl हch we ulta ve to i crure in de enty as we go to the interior purts of the centine 1'. Werg it othervife, the equiissium at which nature ims in all her opera :- sou 1 fiil pr duce the gra hal dimination of the $\mathrm{fl}_{\mathrm{I}}$ of rivers. Without it thicy could not be in a permate ot train.

That we in y more cafily form a rotion of the $=$ in- $1-87$ ? ner in uhich the pemonett orul of a rifor \& chlo in ?




 its pats are in fuited to the tencly of tole $0: 1$ and magnitule of it fection, thai ncitier is is waturs i. ring the anmual frefles terr up its bants or derpen it bed, nor do they bring down from the hif hin nds materials which they de wait in the chanrel in times of fmaller velocioy. Such a river my be faid to be in a permanent fate, to be in confervaliait, or to have fabilith, Let us call this fate of a river its recines, denoting by the word the proper adjufment of the velocity of the ffream to th: ienacity of the channel. The velocity of its regimen mult be the fame throughout, becaufe it is this which regulates its action on the bottom, which is the lame from its head to the fea. That ite bed may have Ilability, the mean velocity of the current mulf be conftant, notwithfanding the inequality of difcharge through its different fections by the brooks which it receives in its courfe, and notwithfanding the augmentation of its fection as it anproaches the fa.

On the other hand, it belored this exazt - gimen to commence at the mouth of the river, ty the working of the whole body of the river, in concert whih he waters of the ocean, which always keep within the fome limits, and make the ulti nate level invariable. This working will begin to dig the bed, giving it as littlbreadth as polible : Sor this working confilits e.i is in the efforts of falls and rapid Itreams, which arte of themfelves in every clannel which has too much fepe. The bottom deepens, and tie fides remain ve.y itcer, till they are undermined and crumble down ; and beir then diluted in the water, they are carricd down the ftream, and depofited where the ocean checks its ficed. The banks crumble down anew, the valley or hoilow forms; but the fection, always confined to its bottom, cannot acquire a great breadth, and it retains a good deal of the form of the trapezium forme ly mentioned. In this manier does the regimen begin to be eilablines 1 from $f$ to $e$.

With refpect to the next part $d e$, the difcharge or produce is diminilhed by the wint of the fro $k / \epsilon$. It muft take a fimilur form, but its area will bo oifni ifheel. in order that its rclocity nazy he the fame; and its mean depth $d$ hei g lefs than in the portion ef below, the flo muft te greater. With ut the fe conditi \& we cuuld not have the uniform velocity, which the flumed permanency

Theory.

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This pro-
cefs oi nature
permanency in an uniform fuil neceffarily fuppofes. Reafoning after the fame inamner for all the portions $c d, b c, a b, s a$, we fee that the reginen will be fucceffively eftablifhed in them, and that the flope neceflary for this purpofe will be greater as we approach the river head. The vertical fection or profile of the courfe of the river $s a b c d e f$ will therefore refemble the line SABCDEF which is iketched below, having its different parts varioufly inclined to the horizontal line HF.

Such is the procefs of nature to be oblerved in every river on the furface of the globe. It long appeared a kind of puzzle to the thcorits; and it was this oblervation of the increafing, or at leatt this continued velocity with fraller flope, as the rivers increafed by the addition of their tributary ftreams, which caufed Gugliclmini to have recourfe to his new principle, the energy of deep waters. We have now feen in what this energy confifts. It is only a greater quantity of motion remaining in the middle of a great fream of water after a quantity has been retarded by the fides and bottom; and we fee clearly, that fince the addition of a new and perhaps an equal frcam does not occupy a bed of double furface, the proportion of the retardations to the remaining motion muft continually diminif, as a river increafes by the addition of netw flreams. If therefore the flope were not diminifhed, the reginen would be deftroyed, and the river would dig up its channel. We have a full confirmation of this in the many works which have been executed on the Po, which runs with rapidity through a rich and yielding foil. About the year 1600 , the waters of the Panaro, a very conriderable river, were added to the Po Grande ; and although it brings along with it in its frefles a vaft quantity of fand and mud, it has greatly deepened the whole Tronco di Venczia from the confluence to the fea. This point was clearly afcertained by Manfredi about the ${ }^{1} 720$, when the inhabitants of the valleys adjacent were alarmed by the project of bringing in the waters of the Rheno, which then ran through the Ferrarefe. Their fears were overcome, and the Po Grande contimues to deepen its channel every day with a prodigious advantage to the navigations; and there are feveral extenfive marfhes which now drain off by it, after having been for ages under water: and it is to be particularly remarked, that the Rheno is the fouleft river in its frefhes of any in that country. We infert this remark, becaufe it may be of great practical utility, as pointing out a method of preferving and even improving the depth of rivers or drains in flat countries, which is not obvious, and rather appears improper : but it is ftrietly conformab:e to a true theory; and to the operations of nature, which never fails to adjuft every thing fo as to bring about an equilibrium. Whatever the declivity of the country nay have been originally, the regimen betins to be fettled at the mouths of the rivers, atd the flopes are diminifled in fucceffion as we recede from the coaft. The original fopes inland may have been much greater; but they will (when bufy nature has completed her work) be left fomewhat, and only fo much greater, that the velocity may be the fame notwithflanding the diminution of the feetion and mean depth.
Frefhes will diturb this methodical progrefs relative only to the fucceffive permanent additions; but their effects chietly accelerate the deepening of the bcd, and the diminution of the flope, by augmenting the velo-
city during their continuance. But when the regimien of the permanent additions is once eftablifled, the frefhes tend chiefly to widen the bed, without greatly deepening it: for the aquatic plants, which have been growing and thriving during the peaceable fate of the river, are now laid along, but not fwept away, by the frefles and protect the bottom from their attacks; and the flones and gravel, which muft have been left bare in a courfe of years, working on the foil, will alfo collect in the bottom, and greatly augment its power of refitance; and even if the floods flould have deepened the bottom fome finall natter, fome mud will be depofited as the velocity of the frefles diminifhes, and this will remain till the next flood.

We have fuppofed the foil uniform through the whole courfe: This feldom happens; therefore the circumflances which infure permanency, or the regimen of a river, may be very different in its different parts and in different rivers. We may fay in general, that the farther that the regimen has advanced up the fream in any river, the more flowly will it convey its waters to the fer.

There are forne general circumftances in the motion of rivers which it will be proper to take votice of juft now, that they may not interrupt our more minute examination of their mechanifm, and their explanations will then occur of themfelves as corollaries of the propofitions which we fhall endeavour to dermonflate.

In a valley of fmall width the river always occupies In narrow the lowefl part of it; and it is obferved, that this is valleys rifeldom in the middle of the valley, and is neareft to that vers adhere fide on which the flope from the higher grounds is fteperf Ateepeft, and this without regard to the line of its courfe. fills. The river generally adheres to the fleepeft hills, whether they advance into the plain or retire from it. This general feature may be obferved over the whole globe. It is divided into compartments by great ranges of mountains; and it may be oblerved, that the great rivers hold their courfe not very far from them, and that their chief feeders come from the other fidc. In every compartment there is a fwell of the low country at a diflance from the bounding ridge of mountains; and on the fummit of this fwell the principal feeders of the great ziver have their fources.

The name valley is given with lefs propriety to thefe, immenfe regions, and is more applicable to tracts of champaign land which the eye can take in at one view. Even here we may obferve a refemblance. It is not always in the very loweft part of this valley that the river has its bed; although the waters of the river flow in a channel below its immediate banks, thefe banks are frequently ligher than the grounds at the foot of the hills. This is very diftinctly feen in Lower Egypt, by means of the canals which are carried backward from the Nile for ac lerating its fertilizing inundations. When the califhes are opened to admit the waters, it is always obferved that the diflriets moft remote are the frit covered, and it is feveral days before the immediately adjoining fields partake of the bleffing. This is a confequence of that general opinsion of nature by which the vallcys are formed. The river in its floods is loaded with mud, which it setains as long as it rolls rapidly along its limited bed, tumbling its waters over and over, and taking up in every fpot as much as it depofits: but as foon as it overflows its tanis, the
very enlargement of its fection dininithes the velocity of the water; and it may be obferved ftill running in the track of its bed with great velocity, while the waters on each tide are ftagnant at a very finall dillance: Therefore the water, on getting over the banks, muft depofit the heavieft, the firmeft, and even the greatelt part of its burden, and nutt become gradually elearer as it approaches the hills. Thus a gentle flope is given to the valley in a direction which is the reverfe of what one would expect. It is, however, almolt always the cafe in wide valleys, efpecially if the great river comes through a foft country. The banks of the brooks and ditches are obferved to be deeper as they approach the river, and the merely fuperficial drains run backwards from it.
We have already obferved, that the enlargement of the bed of a river, in its approach to the fea, is not in proportion to the increafe of its waters. This would be the cafe even if the velocity continued the fame: and therefore, fince the velocity increafes, in confequence of the greater energy of a large bodv of water, which re now underitand diftinctly, a itill fmaller bed is futficient for conveying all the water to the fea.
This general law is broken, however, in the immediate neighbourhood of the fea; becaule in this fituation the velocity of the rater is checked by the paffing flood-tides of the ocean. As the whole waters mult ftill be difcharged, they require a larger bed, and the enlargement will be chiefly in width. The fand and mud are depofited when the motion is retarded. The depth of the mouth of the channel is therefore diminifhed. It maft therefore become wider. If this be done on a coaft expofed to the force of a regular tide, which carries the waters of the ocean acrofs the mouth of the river, this regular enlargement of the month will be the only confequence, and it will generally widen till it wafhes the foot of the adjoining hills; but if there be no tide in the fea, or a tide which does not fet acrofs the mouth of the river, the fands muft be depofited at the fides of the opening, and become additions to the fhore, lengthening the mouth of the channel. In this fheltered fituation, every trivial circumflance will caufe the iiver to work more on particular parts of the bottom, and deepen the channel there. This keeps the mud fufpended in fuch parts of the channel, and it is not depofited till, the itreant has fhut father out into the fea. It is depofited on the fides of thofe deeper parts of the ehannel, and increafes the relocity in them, and thus fill farther protracts the depofition, Rivers fo fituated will not only lengthen their channels, but will divide-them, and produce illands at their months. A buib, a tree torn up by the roots by a mountain torrent, and floated down the flream, will thus inevitably produce an iland; and rivers in which this is common will be continually fhifting their mouths. The Mifilitippi is a moft remarkable inftance of this. It has a long courfe through a rich foil, and difembogues itfe!f into the bay of Mexico, in a place where there is no $p \sqrt{\text { ring tide, as may be feen by comparing the }}$ hours of high water in different places. No river that we know carries dorn its fream fuch nuinbers of root-ed-up trees; they frequently interrupt the navigation, and render it always dangerous in the night-time. This river is fo befet with tlats and mifting fands at its mouth, that the moll expezienced pilots are puzelsed;

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and it has protruded its channel above 50 miles in the fhurt period that we have known it. The difcharge of the Dunube is very fimilar: fo is that of the Nile ; for it is difcharged into a ftill corner of the Mediterrancan. It may now be faid to have acquired coasliderable permanency; but much of this is owing to human indettry, which trips it as much as poffible of its fubideable matter. The Ganges too is in a fituation pretty limilar, and exhibits fimiler plenomena. The Maragnon might be noticed as an exception ; but it is not an exception. It has tlowed very far in a level bed, and its waters come pretty clear to Para; but befides, there is a ftrong tranfverle tide, or rather current, at its mouth, letling to the fouth-eaft both during flood and ebb. The mouth of the Po is perhaps the molt remarkable of any on the furface of this globe, and exhibits appearances extremely fingular. Its difcharge is into a lequellered corner of the Adriatic. Though there be a more remarkable tide in this gulf than in any part of the Mediterranean, it is ftill but trilling, and it either fets directly in upon the mouth of the river, or retires ftraight away from it. The river has many mouths, and they thift prodigioully. There has been a general increafe of the land very remarkable. The marihes where Venice now fands were, in the Augutlan age, everywhere penetrable by the fihing boars, and in the sth century could only bear a few miferable huts; now they are covered with crowds of ftately buildings. Ravenna, fituated on the fouthernmoft mouth of the Po, was, in the Auguttan age, at the extremity of a fwamp, and the road to it was along the top of an artificial mound, made by Auguftus at immenfe expence. It was, however, a fine city, containing extenfive ducks, arfenals, and other mafly buildings, being the great military port of the empire, where Auguftus laid up bis great Chips of war. In the Gothic times it became almoft the capital of the Weftern empire, and was the leat of government and of luxury. It muff, therefore, be fuppofed to have every accommodation of opulence, and we cannot doubt of its having paved Areets, wharfs, \&c.; fo that its wealthy inhabitants were at leaft walking dryfooted from houfe to houfe. But now it is an Italian mile from the fea, and furrounded with vineyards and cultivated fields, and is acceffible in every direction. All this muft have been formed by depofitions from the Po, flowing through Lombardy loaded with the fpoils of the $A l_{P s}$, which were here arrefted by the reeds and bulrufhes of the marfh. Thefe things are in common courfe; but when wells are dug, we come to the pavements of the meient city, and thefe pavements are all on one exact level, and they are eight fiet below the fiurface of the foa at low water. This cannot be afcribed to the fubfiding of the ancient city. This would be irregular, and greatelt among the heavy buildings. The tomb of Theodoric remains, and the pavemeat round it is on a level with all the others. The lower ftory is always full of water; $f 0$ is the lower ftory of the cathedral to the depth of three feet. The omaments of both thefe buildings leave no room to doubt that they were formerly dry; and fuch a building as the cathedral could not link without crumbling into pieces.

It is by no ineans eafy to account for all this. The depofitions of the Po and otber rivers muft raife the ground ; and yet the rivers muff fill How over all. We mult conclude that the furface of the Adriatic is by no
and fteeps, wiiding reurd every clod, nay every plant, which lengthens their coarfe, diminighes their flope, $\underbrace{\text { River. }}$ checks their fpeed, ard thus prevents them from quickly biufhing of from every part of the fuiface the lighteft and beit of the foil. The fatteft of our bolm lands would be too Iteep, and the rivers would thoot along through our fincit meadowe, hurrying every thing away with them, and would be unfit for the purpofes of inland conveyance, if the inequalities of foil did not make them change this headlong courle for the more beautiful meanders which we obferve in the courfe of the fmall rivers winding through our meadows. Thofe rivers are in generdl the ftraighteft in their cousfe which are the moft rapid, and which roll along the greatef bodies of water; fuch are the Rhone, the Po, the Danube. The fimaller rivers continue more devious in their progrefs, till they approach the fea, and have gathered ftrength from all their tributary ftreams.

Every thing aims at an equilibrium, and this directs What na= even the ramoling of rivers. It is of importance to ture left underitand the relation between the force of a river and for man to the refilance which the foil oppofes to thofe deviations perform, from a rectilineal coarfe; for it may frequently happen that the geveral procedure of nature may te inconfillent with our local purpofes. Man was fet down on this globe, and the tafk of cultivating it was given him by nature, and his chief enjoyment feems to be to firuggle with the elements. He muft not find things to his mind, but he muft mould them to his own fancy. Yet even this feeming anomaly is one of nature's moit beneficent laws; and his exertions muft ftill be made in conformity with the genezal train of the operations of mechanical nature : and when we have any work to undertake relative to the courfe of rivers, we muft be careful not to thwart their general rules, otherwife we flall be fooner or later punifhed for their infraction. Things will be brought back to their former ftate, if our cperations are inconfiftent with that equilibrium which is conftantly aimed at, or fome new ftate of things which is equivalent will be foon induced. If a well regulated river has been improperly deepened in fome place, to anfwer fome particular purpofe of our own, or if is breadth has been improperly augmented, we fhall foon fee a depofition of mud or fand choak up our fancied improvements; becaufe, as we have enlarged the fection without increafing the flope or the fupply, the velocity muf diminifh, and floating matters muft be depofited.

It is true, we frequently fee permanent channels where the forms are extremely different from that which the waters would dig for themfelves in an uniform foil, and which approaches a good deal to the trapezium defcribed formerly. We fee a greater breadth frequently compenfate for a want of depth ; but all fuch deviations sre a fort of conftraint, or rather are indications of inequality of foil. Such irregular forms are the works of nature; and if they are permanent, the equilibrium is obtained. Commonly the bottom is harder than the fides, confifting of the coarfeft of the fand and of gravel; and therefore the neceflary fection can be obtained only by increafing the width. We are accuftomed to attend chiefly to the appearances which prognofficate michief, and we interpret the appearances of a permanent bed in the fame way, and frequently form very falfe judgments. When we fee

Theors. one bank low and flat, and the other high and ab. rupt, we fuppofe that the waters are pafing along the firft in peace, and with a gentle ftream, but that they are rapid on the other fide, and are tearing avay the baak; but it is jult the contrary. The bed being permanent, things are in equilibrio, and each bank is of a form jult competent to that equiliorium. If the foil on both fides be uniform, the flream is mott rapid on that fide where the bank is low and that, for in no other form would it withland the action of the ftream; and it has been woon array till its flatnefs compenfates for: the greater force of the itream. The ftream on the other fide mult be more gente, otherwife the bank could not remain abrupt. In thort, in a fate of permanency, the velocity of the ftream and form of the bank are juif fuited to each other. It is quite otherwife before the river has acquired its proper regimen.

A careful confideration therefore of the general features of rivers which have fettled their regimen, is of ufe for informing us concerning their internal motions, and directing us to the moft eftectual methods of regulating their courle.

We have already faid that perpendicular brims are inconfiltent with itability. A femicircular fection is the form which would produce the quickelt train of a river whofe expence and flope are given; bat the banks
Fig. 16. at B and D (fig. 16.) would crumble in, and lie at the bottom, where their horizuntal furface would iecure them from farther change. The bed will acquire the form $\mathrm{G} c \mathrm{~F}$, of equal fection, but greater wideh, and with brims leff fhelving. The proportion of the velocities at A and $c$ may be the fame with that of the velocitie, at A and C ; but the velocity at G and F will be lefs than it was formerly at $\mathrm{B}, \mathrm{C}$, or D ; and the velocity in any intermediate point $E$, being fomewhat between thofe at F and $c$, muft be lefs than it was in any intermediate point of the femicircular bed. The velocities will therefore decreafe along the border from $c$ towards $G$ and $F$, and the fteepnefs of the border will augment at the fame time, till, in every point of the new border $\mathrm{G} c \mathrm{~F}$, thele two circumflances will be fo adjufed that the neceffary equilibrium is eftablithed.

The fame thing muft happen in our trapezium. The flope of the brims may be exact, and will be retained; it will, however, be too great anywhere below, where the velocity is greater, and the fides will be worn away till the banks are undermined and crumble dorn, and the river will maintain its fection by increafing its uidth. In fhort, no border made up of ftraight lines is confiltent with that gradation of velocity which will take place whenevar we depart from a femicircular form. And we accordingly fee, that in all natural clannels the fection has a curvilineal border, with the flope increafing gradually from the bottom to the brim.

Thefe oblervations will enable us to underfland bow nature operates whea the inequality of furface or of tenacity obliges the current to change its direction, and the river forms an elbow.

Suppofing always that the difcharge concinues the fame, and that the mean velocity is either preferved or reftored, the following conditions are neceffary for a permanent regimen.
I. The depth of water malt be greater in the elbow than anywhere elfc.
2. The muin ftean, after having ftruck the concave bank, muft be re?eeted is an cqual angle, and mult then be in the direction of the next reach of the river.
3. The angle of incidence mult be proportioned to the tenacity of the foil.
4. There muft be in the elbow an increafe of flope, or of head of water, capable of overcoming the $r$ fiitance occafioned by the elbow.
The reafunablenels, at leaft, of thefe conditions will appear from the follumi. ig confiderations.

1. It is certain that force is exyended in protucing this change of direttion in a channel whela by fupporition diminithes the current. The d.minutuon arifing fromb binefe of
 greater when the ftream is directed agzinit one of the banks. It may be very dififcult to fate the proportion, and it wo.,1d vocupy too much of our time to atteriph it; but it is fufficicut that we be convinced that the retarda: tion is greater in this cafe. We fue no caufe to increate the mean velocity in the elbow, and we mull therefore conclude that it is diminill. l . Dut we are fuppofing that the difcharge continues the fame; the fectich mult therefore augment, or the channel increafe its tranliverfe dimenfions. The only queftion is, ln what manner it does this, and whet change of form does it affect, and whet form is competent to the final equilibrium and the confequent permanency of the bed? Here there is much room for corjecture. Mr Buat reafons as follorss. If we fuppoie that the points B and C (fig. 17.) conanue on a level, and that the points $H$ and 1 at the beginning of the next reach are alfo on a level, it is an inevitable confequence that the flope along CMI mufi be greater than along BEH, becaufe the deprefizon of H beion 13 is egual to that of I below C, and BEH is langer than CMII. Therefore the velocity along the convex bank CMI muft be greater than along. BEH. There may even be a flagnation and an eddy in the contrary direetion along the concave bank. Thercfore, if the form of the fection were the fame as up the flream, the fides could not fiand on the convex bank. When therefore the fection has attained a permanent form, and the banks are again in equilibrio with the action of the current, the convex bauk muft be much flatter than the concave. If the water is really fill on the concave bank, that bank will be abfolutely perpendicular ; nay, may overhang.Accordingly, this flate of things is matter of daily obfervation, and juftifies our reafonang, and entitcs us to fay, that this is the nature of the internal motion of the filaments which we cannot ditiunctly oblerve. The water moves moft rapidly along the convex bank, and the thread of the fream is neare? to this fide. Reafoning in this way the fection, whicb we may fuppofe to have been originally of the form MbaE (fig. 18.) affumes the thape Fig. 13. MBAE.
2. Without prefuming to know the mechanifn of the internal motions of thuids, ove khow that finperficial waves arc reflected precifely asif they were elaftic bodies, making the angles of incidence and reflection equal. In as far thercfore as the fuperficial wave is concemed in the operation, Mr Buat's fecond pofition is juft. The permanency of the next reach requires that its axis flall be in the direction of the line EP which makes the angle GEP $=$ FEN. If the next reach has the direction EQ, MR, the wave reflected in the line ES will work on the bank at S , and will be. reflected in the line ST, and work
again on the oppofite bank at $T$. We know that the cffect of the fupericial motion is great, and that it is the principal agent in deftroying the banks of canals. So far therefore Mr Buat is right. We cannot fay with any precifion or confidence how the actions of the under filaments are modified; but we know no reafon for not extending to the under filaments what appears fo probable with refpect to the furface water.
3. The third pofition is no lefs evident. We do not know the mode of action of the water on the bauk; but our general notions on this fubjeet, confirmed by common experience, teil us that the more obliquely a flream of water beats on any bank, the lefs it tends to undermine it or waft it away. A fliff and cohefive foil therefore will fuffer no more from being almoft perpendicularly buffetted by a ftream than a friable fand would fuffer from water gliding along its face. Mr Buat thinks, from experience, that a clay bank is not fenfibly afiected till the angle FEB is about 36 degrecs.
4. Since there are caufes of retardation, and we nill fuppofe that the difcharge is kept up, and that the mean velocity, which had been diminifhed by the enlargen:ent of the fection, is again reftored, we muft grant that there is provided, in the nechanifm of thefe motions, an accelerating force adequate to this effect. There can be no accelerating force in an open flream but the fuperficial flope. In the prefent cafe it is undoubtedly fo; becaufe by the deepening of the bottom where there is an elbow in the ftream, we have of neceffity a counter flope. Now, all this head of water, which muif produce the augmentation of velocity in that part of the flream which ranges round the convex bank, will arife from the check which the water gets from the concave bank. This occafions a gorge or fwell up the fream, enlarges a little the fection at BVC ; and this, by the principle of uniform motion, will augment all the velocities, deepen the channel, and put every thing again into its train as foon as the water gets into the next reach. The water at the bottom of this bafon has very little motion, but it defends the bottom by this very circumfance.

Such are the notions which Mr de Buat entertains of this part of the mechanifn of rumning waters. We cannot fay that they are very fatisfactory, and they are very oppofite to the opinions commonly entertained on the fubject. Moft perfons think that the motion is moft rapid and turbulent on the fide of the concave bank, and that it is owing to this that the bank is worn away till it become perpendicular, and that the oppofite bank is flat, becaufe it has not been gnawed away in this manner. With refpect to this general view of the matter, thefe perfons may be in the right; and when a fream is turned into a crooked and yielding channel for the firt time, this is its manmer of antion. But Mr Buat's aim is to inveftigate the circumflances which obtain in the cafe of a reginen; and in this view he is puldoubtedly right as to the facts, though his mode of accounting for thefe facis may be erroncous. And as this is the only ufeful view to be taken of the fubject, it ought chiefly to be attended to in all our attempts to yrocure flability to the bed of a river, without the exjenfive helps of mafonry, \&ic. If we attempt to fecare permanency by deepening on the infide of the cllow, our bank will undoubtedly crumble down, diminifh the paffige, and occafion a more violent action on the hollow bank. The moft eficqual mean of fecurity is to enlarge the fection: and if we do this on the in-

## E R.

fide bank, we mul do it by widening the flream very Theory. much, that we may give a very floping bank. Our attention is commonly drann to it when the hollow bank is giring way, and with a view to ftop the ravages of the ftream. Things are not now in a flate of permanency, but nature is working in her own way to bring it about. This may not fuit our purpofe, and we mult thwart her. The phenomena wlich we then obferve are frequently rery unlike to thofe defribed in the preceding paragraphs. We fee a violent tumbling motion in the ftream towards the hollow bank. We fee an evident accumulation of water on that fide, and the point $B$ is trequently higher than $C$. This regorging of the water extends to fome diftance, and is of itfelf a caufe of greater velocity, and contributes, like a head of ttagnant water, to force the fream through the bend, and to deepen the bottom. This is clearly the cafe when the velocity is exceffive, and the hollow bank able to abide the fhock. In this fituation the water thus heaped up efcapes where it beff can; and as the water, obftructed by an obftacle put in its way, efcapes by the fides, and there bas its velocity increafed, fo here the water gorged up againft the hollow bank fivells over towards the oppofite fide, and paffes round the convex bank with an increafed velocity. It depends much on the adjuftment betreen the velocity and confequent accumulation, and the breadth of the fream and the angle of the elbow, whether this augmentation of velocity frall reach the convex bank; and we fometimes fee the motion very languid in that place, and even depofitions of mud and fand are made there. The whole phenomena are too complicated to be accurately defribed in general terms, even in the cafe of perfect regimen: for this regimen is relative to the confiftence of the channcl; and when this is very great, the motions may be moft violent in every quarter. But the preceding obfervations are of importance, becaufe they relate to ordinary cafes and to ordinary channels.

It is evident, from Mr Buat's fecond pofition, that the proper form of an elbow depends on the breadth of the ftream as well as on the radius of curvature, and that every angle of elbow will require a certain proportion between the width of the river and the radius of the fweep. Mr Buat gives rules and formulæ for all thefe purpofes, and frows that in one fiweep there may be more than one reflection or rebound. It is needlefs to enlarge on this matter of mere geometrical difcuffion. It is with the view of enabling the engineer to trace the windings of a river in fuch a manner that there flall be no rebounds which thall direet the fream againft the fides, but preferve it always in the axis of every reach. This is of confequence, even when the bends of the river aie to be fecured by mafonry or piling; for we have feen the ricceflity of increafing the fection, and the tendency which the waters have to deepen the channel on that fide where the rebound is made. This toids to undermine our defences, and obliges us to give them decper and more fulid foundations in fuch places. But any perfon accuftomed to the we of the fcale and compaffies will form to himfelf rules of practice equally fure and more expeditious than Mr de Buat's formula.
We procted, thercfore, to what is more to our pur- R.fifance pofe, the confideration of the refifance caufed by an dured by elbow, and the methods of providing a force capable an clbow; of overcoming it. We have already taken notice of and mode the falutary confequences arifing from the rambling coming it.

Theory. courfe of rivers, irrafinuch as it more effectually fpreads them over the face of a country. It is no lefs beneticial by diminifling their velocity. This it does both by lengthening their courfe, which diminithes the declivity, and by the very reffiance which they meet with at every bend. We derive the chief advantages from our rivers, when they no longer fhoot their way from precipice to precipice, loaded with mud and fand, but peaceably roll along their clear waters, purified during their gentler courfe, and offer themfelves for all the purpoles of pafturage, agriculture, and navigation. The more a river winds its way round the foot of the hills, the more is the refiftance of its bed multiplied ; the more obflacles it meets with in its way from its fource to the fea, the more moderate is its velocity; and inftead of tearing up the very bowels of the earth, and digging for itfelf a deep trough, along which it fiweeps rocks and rooted-up trees, it Hows with majeftic pace even with the furface of our cultivated gronnds, which it embellifhe; and fertilizes.

We may with fafety proceed on the fuppofition, that the force neceffary for overcoming the refiltance arifing from a rebound is as the fquare of the velocity; and it is reafonable to fuppofe it proportional to the fquare of the fine of the angle of incidence, and this for the reafons given for adopting this meafure of the general REsIs TANCE of Fluids. It cannot, however, ciaim a greater confidence here than in that application; and it has been fhown in that article with what uncertainty and limitations it muft be received. We leave it to our readers to adopt either this or the fimple ratio of the fines, and fhall abide by the duplicate ratio with Mr Buat, becaufe it appears by his experiments that this law is very exactly obferved in tubes in inclinations not exceeding $40^{\circ}$; whereas it is in thefe frall angles that the appli. cation to the general refiftance of fluids is moft in fault. But the correction is very fimple, if this value frall be found erroneous. There can be little doubt that the force neceflary for overcoming the refiflance will increafe as the number of rebounds.-Therefore we may exprefs the refiftance, in general, by the formula $r=\frac{\mathrm{V}^{2} s^{2} n}{m}$; where $r$ is the refiftance, V the mean velocity of the ftream, $s$ the fine of the angle of incidence, $n$ the number of equal rebounds (that is, having equal angles of incidence), and $m$ is a number to be determined by expefiment. Mr de Buat made many experiments on the reffitance occafioned by the bendings of pipes, none of which difiered from the refult of the above formula above one part in twelve; and he concludes, that the refifance to one bend may be eftimated at $\frac{\mathrm{V}^{2} \mathrm{~s}^{2}}{3000}$. The experiment was in this form : A pipe of one inch diameter, and 10 feet long, was formed with 10 rebounds of $36^{\circ}$ each. A head of water was applicd to it, which gave the water a velocity of fix feet per fecond. Another pipe of the fame diameter and length, tut without any bendings, was fubje Aled to a preflure of a head of water, which was increafed till the velocity of eflux was alfo fix feet pei fecond. The additional head of water was $5 \%^{\circ}$ inches. Another of the fame diameter aid leogth, haring one bend of $24^{\circ} 34$. and running 8 jinches per fecond, was compared with A fraight pipe baving the fame velucity, and the diffc-
rence of the heads of water was ? 1 computation from thefe two experiments will give the above refult, or in Englifh meafuse, $r=\frac{V^{2} s^{2}}{3200}$ very nearly. It is probable that this meafure of the refirtance is too great ; for the pipe was of uniform diameter even in the bends: whereas in a river properly formed, where the regimen is exact, the capacity of the fection of the bend is increafed.

The application of this theory to inclined tubes and Theory ap. to open ftreams is very obvious, and very legitimate and fafe. Let AB (fig. 19.) be the whole height of the clined lubes lied to inrefervoir ABIK , and EC the horizontal lengih of a anteam pipe, containing any number of rebounds, equal or un- Fig. 19. equal, but all regular, that is, confructed according to the conditions formerly mentioned. The whole head of water fhould be conceived as performing, or as divided into portions which perform, three different offices.One portion, $A D=\frac{V^{3}}{505}$, impels the water into the entry of the pipe with the velocity with which it really moves in it; another portion EB is in equilibrio with the refiftances arifing from the mere length of the pipe expanded into a ftraight line; and the third portion DE ferves to overcome the refiffance of the bends. If, therefore, we draw the horizontal line BC, and, taking the pipe $B C$ out of its place, put it in the pofition DH, with its mouth C in H , fo that DH is equal to BC , the water will have the fame velocity in it that it had before. N. B. For greater fimplicity of argument, we may fuppofe that when the pipe was inferted. at B, its bends lay all in a horizontal plane, and that when it is inferted at D , the plane in which all its bends lie flopes only in the direction DH, and is perpendicular to the plane of the figure. We repeat it, the water will have the fame velocity in the pipes BC and DH , and the refiftances will be overcome. If we now prolong the pipe DH towards $L$ to any difance, repeating continually the fame bendings in a feries of lengths, each equal to DH , the motion will be continued with the velocity correfponding to the preflure of the column AD; becaufe the declivity of the pipe is augmented in each length equal to DH, by a quantity precifely fufficient for overcoming all the refiftances in that length; and the true llope in thele cafes is $\mathrm{BE}+$ ED, divided by the expanded length of the pire BC or DH.

The analogy which we were enabled to eftablifl between the uniform motion or the train of pipes and of open freams, intitles us now to fay, that when a rives has bendings, wbich are regularly repeated at equal intervals, its llope is compounded of the flope which is neceflary for overcoming the refiflance of a ftraight channel of its whole expanded length, agreeably to the formula for uniform motion, and of the flope which is neceflary for overcoming the refiltance arifing from its bending alone.

Thus, let there be a river which, in the expanded courfe of $\sigma$ zo fathoms, has 10 elbows, cach of which has $30^{\circ}$ of rebound; and let its mean velocity be ad inclies in a fecond. If we frould learn its whole nope in this $60 \geqslant 0$ fathome, we mult firt find (by the formula of uniform motion) the (lope $s$ which will produce the velocity of so inches in a flraight river of this length, feetion, and mean depth. Suppofe this to be $x x^{\frac{7}{6}} 5$ or 20 inches in this whole lengit. We maft then find (by the formula $\frac{V^{2} \operatorname{Sin}^{2}}{3^{200}}$ ) the Ilope weceflary for overcoming the seffitance of 10 rebounds of $30^{\circ}$ each. This
we fhall find to be $6 \div$ inches in the 6000 fathoms. Therefore the river muft have a flope of $26 \frac{2}{3}$ inches in 6000 fathoms, or $\mathrm{r}_{3}^{\frac{1}{2}=0}$; and this flope will produce the fame velocity which 20 inches, or ₹'ve, would do in a frraight renning river of the fame length.

## Part II. PRACTICAL INFERENCES.

HAVING thus cfablifhed a theory of a moft important part of hydraulics, which may be confided in as a jult reprefentation of nature's procedure, we flall apply it to the examination of the chief refults of every thing which art has contrived for limiting the operations of nature, or modifying them fo as to fuit our particular views. Trufting to the detail which we bave given of the conneeting principles, and the chief circumftances which co-operate in producing the oftenfible effect; and fuppofing that fuch of our readers as are interefted in this fubject will not think it too much trouble to make the applications in the fame detail; we fhall content ourfelves with merely pointing out the fteps of the procefs, and fhowing their foundalion in the theory itfelf : and frequently, in place of the direct analyfis which the theory enables us to employ for the folution of the problems, we fhall recommend a procefs of approximation by trial and correction, fufficiently accurate, and more within the reach of practical enginetrs. We are naturally led to confider in order the following articles.

1. The effeets of permanent additions of every kind to the waters of a river, and the moit effectual methods of preventing or removing inundations.
2. The effects of weirs, bars, fuices, and keeps of every kuid, for raifing the furface of a river; and the fimilar effects of bridges, picis, and every thing which contracts the fection of the fiream.
3. The nature of canels; how they differ from rivers in refpect of oricin, difcharge, and regimen, and what conditions are neceflary for their moft perfet conftruction.
4. Canal; for draining land, and drafts or canals of cerivation from the main fream. The principles of their conflruction, fo that they may fuit their intended purpofes, and the change which they produce on the main feream, bolla above and below the point of derivation.

## Of the Effects of Permanent Alditions to the Waters of a River.

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Problems and exama ples on the effects of permanent additions to the waters of a river.

Frour what has been faid already, it appears that to every hind of foil or bed there correfponds a certain velocity of current, too fmall to hurt it by digging it up, and too great to allow the depofition of the materials which it is carrying along. Suppofing this known for any particular fituation, and the quantity of water which the char ne! muft of neceffity difcharge, we may wifh to learn the fmalleft flope which malt be given to this T.. m , thet the waters may run with the required velocity. This fugrelts,

Prob. I. Given the dicharge D of a river, and V its
velocity of regimen : required the fmalleft flope $s$, and the dimenfions of its bed?

Since the flope muft be the fmallen poffible, the bed muft have the form which will give the greateft mean depth $d$, and flould therefore be the trapezium formerly defribed; and its area and perimeter are the fame with thofe of a rectangle whole breadth is twice its height
h. Thefe circumftanees gives us the equation $\frac{D}{V}=2 / 2^{2}$, For the area of the fection is twice the fquare of the beight, and the difcharge is the product of this area and the velocity. Therefore $\sqrt{\frac{D}{2 V}}=l 6$ and $\sqrt{\frac{2 D}{V}}$ $=$ the b =adel: $b$.
The fann in of uniform notion gives $1 / s-L \sqrt{s+1.6}$ $=\frac{22(2)-0.1}{\sqrt{2}+.3(\sqrt{d}-0.1)}$. Infead of $\sqrt{d}-0.1$, put its equal $\sqrt{ } \frac{h}{2}-0.1$, and every thing being known in the fecond member of this equation, we eafly get the value of $s$ by a few trials after the following manner: Suppofe that the fecond member is equal to any number, fuch as 9. Firft fuppofe that $1 \sqrt{s}$ is $=9$. Then the hyperbolic logarithm of $9+1.6 \mathrm{cr}$ or of 10.6 is 2.36 . Therefore we have $1^{\prime} s-L \sqrt{s+1.6}=9-2.36,=664$; whereas it ftould have been $=0$. Therefore fay $6.64: 9=9: 11.2$ nearly. Now fuppofe that $v^{\prime}$ is $=12.2$. Then $L$ $\overline{12.2+1.6}=$ L $_{13} .8,=2.625$ nearly, and $12.2-2625$ is 9.575 , whereas it Chould be 9 . Now we find that changing the talue of $\sqrt{\bar{s}}$ from 9 to 12.2 has changed the anfwer from 6.64 to 9.575 , or a change of 3.2 in our affumption has made a change of 2.935 in the anfwer, and has left an ertor of 0.575 . Therefore fay 2.935:0.575 $=3.2: 0.628$. Then, taking 0.628 from 12.2 , we bave (for our next affumption or value of $\sqrt{5}$ ) 11.572 , Now $11.57^{2}+1.6=13.172$, and L. $13.17^{2}$ is 2.58 nearly. Now try this laft value $11.561-2.58$ is 9.008 , fufficientiy exact. This may ferve as 2 fpecimen of the trials by which we may aroid an intricate analy fis.

Pror. 11. Given the difcharge D, the flope $s$, and the velocity $V$, of permanent regimen, to find the dimenfions of the bed.

Let $x$ be the width, and $y$ the depth of the channei, and $S$ the area of the fection. This mult be $=\frac{D}{V}$, which is therefore $=x y$. The denominator $s$ being given, we may make $\sqrt{ } s-\mathrm{L} \sqrt{s+1.6}=\sqrt{ } \mathrm{B}$, and the formela

## Part II.

$\underbrace{\left.\begin{array}{c}\text { Prectical } \\ \text { Inferences } \\ \text { Pormula of mean vclucity will give } V\end{array}=\frac{207(\sqrt{d}-0.1)}{\sqrt{\prime}}\right)}$ $-0.3(\sqrt{d}-0.1)$, which we may exprefs thus: $\mathrm{V}=$ $(\sqrt{d}-0.1)\left(\frac{297}{\sqrt{B}}-0.3\right)$, which gives $\frac{V}{\frac{297}{\sqrt{B}}-0.3}=$ $\sqrt{d}-2.1)$; and finally, $\frac{V}{\frac{297}{1.3}-0.3}+0.1=v^{\prime} \bar{d}$.

Having thus obtained what we called the mean depth, we may fuppofe the feetion rectangular. This gives $d=\frac{x y}{x+2 y}$. Thus we have two equations, $\mathrm{S}=x y$ and $d=\frac{x y}{x \div 2 y}$.

From which we obtain $x=\sqrt{\left(\frac{\mathrm{S}}{2 d}\right)^{2}-2 \mathrm{~S}}+\frac{\mathrm{S}}{2 d}$. And having the breadth $x$ and area $S$, we have $y=\frac{S}{x}$. And then we may change this for the trapczium often mentioned.

Thefe are the chicf problems on this part of the fubject, and they caable us to adjuft the dlope and channel of a river which receives any number of fucceffive permane : additions by the influx of other ftreams. This lalt in:orms us of the rife which a new fupply will produce, becaufe the additional fupply will require additional dimenfions of the channel ; and as this is not fupnofed to increafe in breadth, the addition will be in depth. The queftion may be propofed in the following prablem.

Prob. III. Given the flope s, the depth and the baie of a rectangular bed (or a trapezium), and confesquently the difcharge D , to find how much the lection will rife, if the dicharge be augmented by a given quantity.

Let $h$ be the height after the augmentation, and $w$ the width for the rectangular bed. We have in any uniform current $\sqrt{ } \bar{d}=\frac{\mathrm{V}}{\frac{297}{1^{\prime} \mathrm{B}}-0.3}$. Railing this to a fquare, and putting for $d$ and V their values $\frac{w h}{w+2 h}$ and $\frac{\mathrm{D}}{w h}$, and making $\frac{297}{\sqrt{B}}-0 \cdot 3=\mathrm{K}$, the equation becomes $\frac{w h}{w+2 / 2}$ $=\left(\frac{\mathrm{D}}{w / \mathrm{K}}+0.1\right)^{3}$. Raifing the fecond member to a fquare, and reducing, we obtain a cubic equation, to be folved in the ufual manser.

But the folution would be extremely complicated. We may obtain a very expeditious and exact approximation from this confideration, that a fmall change in one of the dimenfions of the fection will produce a much greater change in the fection and the difcharge than in the mean depth $d$. Having therefore augmented the unknown dimenfion, which is here the height, make ufe of this to form a new mean depth, and then the new equation $\sqrt{d}=\frac{\mathrm{D}}{w / 2\left(\frac{297}{\sqrt{B}}-0.3\right.}+0.1$ will give us ano.
ther value of $h$, which will rarely creeed the truth by rio. This ferves (by the fame procefs) for finding ano. Inferences. ther, which will cummonly be fufficiently exact. We fhall illuftrate this by an esample.

Let :here be a river whole channel is a rectangle 150 feet wide and fix feet deep, and which difcharges I 500 cubic feet of water per fecond, having a velocity of 20 inches, and flope of re\%ठ , or about ro of an inch in 100 fathoms. How much will it rife if it receives an addition which triples its difcharge ? and what will be its velocity ?

If the velocity remained the fame, its depth would be tripled; but we know by the general formula that its velocity will be greatly increafed, and therefore its depih will not be tripled. Suppofe it to be doubled, and to become 12 feet. This will give $d=10.344^{8} 3$, or $124.13^{8}$ inches; then the equation $\sqrt{d}-0.1=$ $\frac{\mathrm{D}}{w^{\prime / h}\left(\frac{297}{\sqrt{B}}-0.3\right.}$, or $h=\frac{\mathrm{D}}{w\left(\sqrt{1}^{d}-0.1\right)\left(\frac{297}{1^{\prime B}}-0.3\right)}$, and in which we have $\sqrt{ } \mathrm{B}=107.8, \mathrm{D}=4500 ; \sqrt{\bar{d}}-0.1$ $=11.0417$, will give $h=13.270$; whereas it fhould have been 12. This thows that our calculated value of $d$ was too fmall. Let us therefore increafe the deple by 0.9, or make it 12.9, and repeat the calculation. This will give us $\sqrt{6}-0.1=11.3927$, and $h=12.867$, inftead of 13.276 . Therefore augmenting our data 0.9 changes our anfwer 0.409 . If we fuppole thefe fmall changes to retain their proportions, we may conciude that if 12 be augmented by the quantity $x \times 0.9$, the quantity ${ }^{1} 3.276$ will daminith by the quantity $x \times 0.409$. Therefore that the eftimaied value of $h \mathrm{may}$ a ree with the one which refults from the calculation, we muit have $12+x \times 0.9=13.276-q \times 0.409$. This will give $x=\frac{1.276}{1.309},=0.974^{8}$, and $x \times 0.9=0.8773$; and $h-12.8773$. If we repeat the calculation with this value of $h$, we thall find no change.

This value of $h$ gives $d=131.8835$ inches. If we nors compute the new velocity by dividing the new difcharge 4500 by the new area $150 \times 12.8773$, we thall find it to be 27.95 inclics, in place of 20 , the former velocity.

We might have made a pretty exact firf afumption, by recollecting what was formerly obferved, that when the breadth is vary great in proportion to the depth, the mean depth differs infenfibly from the ral depth, or rather follows nearly the fame proportions, and that the velocities are proportional to the fquare roots of the depths. Call the firt difcharge $d$, the height $h_{4}$, and velocity $\varepsilon$, and let $D, H$, and $T$, exprefs thefe things in their augmented fate. We have $v=\frac{d}{q 0 h_{3}}$ and $\mathrm{V}=\frac{\mathrm{D}}{\varepsilon v \mathrm{H}}$, and $v: \mathrm{V}=\frac{d}{h}: \frac{\mathrm{D}}{\mathrm{H}}$, and $v^{2}: \mathrm{V}^{2}=\frac{d^{2}}{h^{2}}: \frac{\mathrm{D}^{2}}{\mathrm{H}^{2}}$. But by this remark $v^{3}: V^{3}=h: H$. Therefore $h: H=$ $\frac{d^{2}}{h^{2}}: \frac{D^{2}}{H^{3}}$, and $\frac{h \mathrm{D}^{2}}{H^{4}}=\frac{H d^{2}}{h_{2}^{2}}$, and $h_{2}^{3} \mathrm{D}^{2}=H^{3} d^{2}$, and $d^{3}$ : $\mathrm{D}^{2}=h^{3}: \mathrm{H}^{3}$ (a ufeful theorem) and $\mathrm{H}^{3}=\frac{h_{3}^{3} \mathrm{D}^{3}}{d^{2}}$, and $H=\sqrt[3]{\frac{h_{3}^{3} D^{2}}{d^{3}}}=12.4^{8}$.

Or we might have made the fame affumption by the remark alfo formerly made on this cafe, that the fquares of the difcharges are nearly as the cubes of the height, or $1500^{2}: 4500^{2}=6^{3}: 12.4^{3}$.

And in making thefe firt guefies, we fhall do it more exactly, by recolleeting that a certain variation of the mean depth $d$ requires a greater sariation of the height, and the inctement will be to the height nearly as lalf the height to the width, as may eafily be feen. ThereFore, if we add to 12.48 its $\frac{6.2 \frac{1}{150} \text { th }}{}$ part, or its 24 th part, viz. 0.52 , we have 13 for our firlt affumption, exceeding the truth only an inch and a half. We mention thefe circumfances, that thofe who are difpofed to apply thefe doctrines to the folution of practical cafes may be at no lofs when one occurs of which the regular folution requires an intricate analytis.

It is evident that the inverfe of the foregoing problems will fhow the effeets of enlarging the fection of a river, that is, will fhow how much its furface will be funk by any propofed enlargement of its bed. It is therefore needles's to propofe fuch problems in this place. Common fenfe direets us to make thefe enlargements in thofe parts of the river where their effect will be greateft, that is, where it is fhalloweft when its breadth greatly exceeds its depth, or where it is narroweft (if its depth exceed the brcadth, which is a very rate cafe), or in general, where the 促e is the fmalleft for a fhort run.

The fame general principles direct us in the method of embankments, for the prevention of floods, by enabling us to afcertain the heights neceffary to be given to our banks. This will evidently depend, not only on the additional quantity of water which experience tells us a river brings down during its frefhes, but alfo on the diffance at which we place the banks from the natural banks of the river. This is a point where miftaken economy frequently defeats its own purpofe. If we raife our embank ment at forme ditance from the natural banks of the river, not only will a fmaller height fuffice, and confequently a fmaller bafe, which will make a faring in the duplicate proportion of the height ; but our works will be fo much the more durable rearly, if not exactly, in the fame proportion. For by thus enlarging the additional bed which twe give to the fwollen river, we diminiki its velocity almoft in the fame proportion that we enlarge its channel, and thus diminifh its power of ruining our sorks. Except, therefore, in the cafe of a river whofe frefhes are loaded with fine fand to deftroy the turf, it is always proper to place the embankment at a confidcrable diftance from the natural banks. Placing them at half the breadth of the ftream from its natural banks, will nearly double its channel; and, except in the cafe now mentioned, the fpace thus detached from our fields will afford excellent patture.

The limits of fuch a work as ours will not permit us to enter into any detail on the method of embankment. It would require a volume to give intructions as to the manner of founding, raifing, and lecuring the dykes which muft be raifed, and a thoufand circumfances which mult be attended to. But a few general obfervations may be made, which naturally occur while we are conidering the manner in which a river works in fettling or altening its chansel.

It mult be remarked, in the firft place, that the river Practical will rife higher when embanked than it does while it was allowed to fpread; and it is by no means cafy to conclude to what height it will rife from the greateft height to which it has been obferved to rife in its Hoods. When at liberty to expand over a wide valley; then it could only rife till it overllowad with a thicknets or depth of water fulficient to produce a motion backwards into the valley quick enough to take off the water as falt as it was fupplied; and we imagive that a foot or two would fuffice in moft cales. The belt way for a prudent engineer will be to obferve the utmoft rife remembered by the neighbours in fome gorge, where the river cannot fpread out. Meafure the increafed fection in this place, and at the fame time recollect, that the water increafes in a much greater proportion than the fection ; becaufe an increafe of the hydraulic mean depth produces an increafe of velocity in the duplicate proportion of the depth nearly. But as this augmentation of velocity will obtair alfo between the embankments, it will be fufficiently exact to fuppofe that the fection muft be increafed here nearly in the fame proportion as at the gorge already mentioned. Neglecting this method of infornation, and regulating the height of our embankment by the greateft fivell that has been obferved in the plain, will afluredly make them too low, and render them totally ufelefs.
A line of embankment flould always be canied on by a frict concert of the proprietors of both banks through its whole extent. A greedy proprietor, by advancing his own embankment beyond that of his neighbours, not only expofes hinfelf to rifk by the working of the waters on the angles which this will produce, but expofes his neighbours alfo to danger, by narrowing the feetion, and thereby raifing the fuirface and increafing the velocity, and by turning the ftream athwart, and caufing it to thoot againft the oppofite bank. The whole flould be as much as poffible in a line; and the general effect fhould be to make the courfe of the fream ftraighter than it was before. All bends fhould be made more gentle, by keeping the embankment further from the river in all convex lines of the natural bank, and bringing it nearer where the bank is concave. This will greatly diminifh the action of the waters on the bankment, and infure their duration. The fame maxim muft be followed in fencing any brook which difcharges itfelf into the river. The bends given at its mouth to the two lines of emhankment fhould be made lefs acute than thofe of the natural brook, although, by this means, two points of land are left out. And the opportunity flould be embraced of making the direction of this tranfverfe brook more floping than before, that is, lefs athwart the direction of the river.

It is of great confequence to cover the outfide of the dyke with very compact turf clofely united. If it admit water, the interior part of the wall, which is always more porous, becomes drenched in water, and this water acts with its flatical preffure, tending to burft the bank on the land-fide, and will quick!y haift it from its feat. The utmoft care fhould therefore be taken to make it and keep it perfectly tight. It fhould be a continued fine turf, and every bare foot flould be carefully covered with freflı fod; and rat holes munt be carefully clofed up.

## Of Straighting or Changing the Courfe of Rivers.

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## Of the gope

 - have fcen, that every bending of a river requires requred at an additional flope in order to continue ite train, or enthe bend of able it to convey the fame quantity of water without a river, and fwelling in its bed. Therefore the effect of taking the confe- away any of thefe bends muft be to fink the waters ofold river up the ftream, or in the new channel. It is Practical plain that all thefc points cannot be reconciled. We I- ferences. may make the new channel fuch, that it thall leave a velocity compatible with fability, and that it fhall not diminifh the depth of the river up the flream. But, having a greater flope, it muft have a fmaller mean depth, and alfo a fmaller real depth, unlefs we make it of a very inconvenient form.

The fame things viewed in a different light, will flow us what depreffion of waters may be produced by rectifying the courte of a river in order to prevent its overflowing. And the procefs which we would recommend is the fame with the foregoing. We apprchend it to be quite needlefs to meafure the angles of rebound, in order to compute the flope which is employed for fending the river through the bend, with a view to fuperfede this by ftraighting the river. It is infinitely eafier and more exact to meafure the levels themfelves, and then we know the effect of removing them.

Nor need we follow M. de Buat in folving problems for diminilhing the flope and velocity, and deepening the channel of a river by bending its courfe. The expence of this would be in every cafe enormous; and the practices which we are juft going to enter upon afford infinitely eafier methods of accomplifhing all the purpofes which are to be gained by thefe changes.

## Of Bars, Weirs, and Jetteys, for raijing the Surface of Rivers.

WE propofe, under the article WATER-II'orks, to Psoblems, confider in fufficient practical detail all that relates to examples, the conftruction and mechanifm of thefe and other erec- ${ }^{\text {and confe- }}$ tions in water ; and we confine ourfelves, in this place, quences, of to the mere effect which they will produce on the cur-furface of rent of the river.

We gave the name of weir or bar to a dam erected acrofs a river for the purpole of raifing its waters, whether in order to take off a draft for a mill or to deepen the channel. Before we can tell the effect which they will produce, we muft have a general rule for afcertaining the relation between the height of the water above the lip of the weir or bar, and the quantity of water which will flow over.

Firft, then, with refpect to a weir, reprefented in fig. 20. and fig. 21. The latter figure more refembles Fig. 20, 2r. their ufual form, confifting of a dam of folid mafonry, or built of timber, properly fortified with fhoars and banks. On the top is fet up a ftrong plank FR, called the wafteboard or wafter, over which the water flows. This is brought to an accurate level, of the proper height. Such voiders are frequently made in the fide of a millcourfe, for letting the fuperfluous water run off. This is properly the W ASTER, vOIDER: it is alfo called an ofFser. The fame obfervations will explain all thefe different pieces of practice. The following queftions occur in courfe.

Prob. I. Given the length of an offset or wafteboard, made in the face of a refervoir of ftagnant water, and the depth of its lip under the horizontal furface of the unter, to determine the difcharge, or the quantity of water which will run over in a fecond

Let $A B$ be the horizontal furface of the fill water, and F the lip of the wafteboard. Call the depth BF under the forface $h$, and the length of the wafleboard $/$.
L.
N. R.

Practical N. B. The water is mplpoded to forr over into another Iaf rences. baton or channel, fo rauch lower that the furface HL of the watee is lower, or at icaft not higher, than $F$.

If the water could be fupported at the beiwht BF, BF might be col idered as an orifice in the dide of a veflel. In which cale, the diich. Fge would be the tame as if the shole water were fiowng with the vel city acquired from the height $\frac{4}{9} B \Gamma$, or $\frac{4}{3} / 2$. And it ne fuppofe that there is no contication at the orince, the mean velocity would be $\sqrt{2 \pi \frac{1}{5} / 2}=\sqrt{772 /} /$, in Englith inches, per fecond. The area of this orifice is $/ /$. Therezore the difcharge wa'd be $l / 2 \sqrt{77^{24} / 4}$, all being mealured in inches. This is the ufual theoly; but it is not an exact reprefentation of the manner in which the efllux really happens. The water cannet remain at the height BF; but in drawing towards the wafleboard from all fides, it forms a convex furface AlH , fo that the point I, where the vertical drawn from the edge of the wafteboard meets the curve, is confiderably lower than B. But as all the mafs above F is luppofed perfectly fluid, the preffure of the i:1cumbent water is propagated, in the opinion of N. . ce Buat, to the filament pafling over at $F$ without any diminution. The fame may be faid of any flament between F and I. Each tends, therefore, to move in the fame manner if it were really impelled through an orifice in its place. Therefore the motions through cvery part of the line or plane IF are the fame as if the water were cfeaping through an orifice 15, made by a lluice let down on the water, and kecping up the water of the refervoir to the level AB. It is beyond a doubt (Fays he) that the height IF muft depend on the whole height $B F$, and that there muft be a certain determined proportion between them. He does not attempt to determine this proportion theoretically, but fays, that his experimerts alcertain it with great precifion to be the proportion of one to two, or that 1F is always one-half of BF. He fays, however, that this detcrmination was not by an immediate and direct meafurement; he concluded it from the comparifon of the quantities of water difcharged under differeat heights of the water in the refervir.

We cannot help thinking that this reafoning is very defective in feveral particulars. It cannot be inferred, from the laws of hydrof latical preffure, that the flament at I is prefled forward with all the weight of the column BI. The particle I is really at the furface; and confidering it as making part of the furface of a running ftream, it is fubjected to hardly any preffure, any more than the particles on the furface of a cup of water held in the hand, while it is carried round the axis of the earth and round the fun. Fieafoning according to his own principles, and availing himfelf of his own difcovery, he flould fay, that the particle at I has an accelerating force depending on its flope only; and then he fhould have endeavoured to afcertain this flope. The mo ion of the particle at I has no immediate connection with the preffure of the column BI ; and if it had, the motion would be extremely different from what it is: for this preflure alone would give it the velocity which M. Buat affigns it. Now it is alreadv pafling through the point 1 with the velocity which it has acquired in defcending along the curve AI; and this is the real tate of the cafe. The particles are paffing through
with a velocity already acquired by a foping cureent ; and they are accelerated by the hydroftatical prefiare of the water abore them. The intenal mechanifm of thefe motions is infinitely more complex than M. Buat here furpules : and on this fuppofition, he very nearly abandons the theory which he has fo ingeniouty claablilhed, an : adorts the theory of Guglicin ni which lie had explocied. At the fame time, we think that he is not muth mitteken when he afierts, that the motions are nearly the fame as if a fluice had been let down from the furface to I. For the flament wlach paffes at I has been gliding down a curved furface, and has not been capoled to any friction. It is perlaps the very cafe of hydraulics where the ubitructions ate the fmalleft; and we fhould therefore expect that its motion will be leaft retarded.

We have therefore no hefitation in faying, that the filament at 1 is in the very ftate of motion which the theory would aflign to it if it were paffing under a dluice, as M. Buat iuppules. And with relpect to the inferior filaments, without attempting the very difficult tafi of inveftigating their motions, we diall juif fiy, that we do not fee any reafon for luppofing that thicy will move flower than our author fuppofes. Therefore, though we reject his theory, we admit his experimental propofition in general; that is, we admit that the whole water which pafles through the plane IF moves with the velucity (though not in the fame dincetion) with which it would have 1 un through a fluice of the fane depth; and we may proceed with his determination of the quantity of water difcharged.

It we make BC the axis of a parabola EEC.IH, the vclucities of the filaments paffing at 1 and $F$ will be reprefented ky the o-oinates IE and IG, and the difcharge by the area IEGF. This allows a very neat folution of the problem. Let the quantity dicharged per fecond be $D$, and let the whole height PF be $/ 2$. Let 2 G be the quantity by which we muft divide the fquare of the mean velocily, in crder to have the producing height. This will be lefs than $2 g$, the aiceleration of gravity, on account of the conwergency at the fides and the tendency to convergence at the lip $F$. We lormerly gave for its meafure 726 inches, infiead of $77^{2}$, and faid that the inches difcharged per fecond from an orifice of one inch were 26.49 , inftead of $27 \cdot 7^{8}$. Let $x$ be the diftance of any flament from the horizontal line $A B$. An element of the orifice, therefore, (for we may give it this name) is $/ \dot{2}$. The velccity of this element is $\sqrt{2 G x}$, or $\sqrt{2 G} \times \sqrt{\prime}^{\prime} x$. The difcharge from it is $l \sqrt{2 \mathrm{G} x^{\frac{1}{2}}} \dot{x}$, and the fluent of this, or $\mathrm{D}=f l \sqrt{2 \mathrm{G}} x^{\frac{3}{2}} \dot{x}$, which is $\frac{2}{3} / \sqrt{2 \mathrm{G}} x^{\frac{3}{2}}+\mathrm{C}$. To determine the conflant quantity $C$, olferve that MI. de Buat found by experiment that $B$ was in all caes $\frac{3}{2} \mathrm{BF}$. Therefore D mult be nothing when $x=\frac{1}{2} /$; confequently $\mathrm{C}=-\frac{2}{3} / \sqrt{2 \mathrm{G}}\left(\frac{h}{2}\right)^{\frac{3}{2}}$, and the completed fluent will be $\mathrm{D}=\frac{7}{3} / \sqrt{ } 2 \mathrm{G}\left(x_{2}^{3}-\left(\frac{h}{2}\right)^{\frac{7}{2}}\right)$.

Now make $x=h$, and we have
$\mathrm{D}=\frac{3}{3} / \sqrt{2 \mathrm{G}}\left(l l^{\frac{3}{2}}-\left(\frac{h}{2}\right)^{\frac{3}{2}}\right)=\frac{2}{3} / 1^{1} \overline{2 \mathrm{G}}\left(:-\left(\frac{1}{2}\right)^{\frac{3}{2}}\right) / h_{2}^{\frac{3}{2}}$.

Pantical But $1-(.) \frac{\%}{2}=0.64645$, and $\frac{2}{3}$ of this is 0.431 : $\underbrace{\text { Interences }}$ Therefore, finally,

$$
\mathrm{D}=0.43^{1}\left(\sqrt{2 \mathrm{G}} h_{\frac{1}{2}} \times l\right) .
$$

If we now put 26.49 or $26 \frac{1}{2}$ for $\sqrt{2 G}$, or the velocity with which a head of water of one inch will impel the water over a weir, and multiply this by 0.43I, we get the following quantity 11.4172 , or, in numbers of eafy recollection, $1 \frac{3}{2}$, for the cubic incles of water per fecond, which runs over every inch of a walteboard when the edge of it is one inch below the furface of the refervoir ; and this mult be multiplied by $h \frac{1}{2}$, or by the fquare root of the cube of the head of water. Thus let the edge of the waiteboard be four inches below the furface of the water. The cube of this is 64 , of which the fquare root is eiglit. Therefore a wafteboard of this depth under the furface, and three feet long, will difcharge every fecond $8 \times 36 \times 1 \pm \frac{1}{2}$ cubic inches of water, or $\frac{8}{8}$ cubic feet, Englith meafure.

The following comparifons will fhow how much this theory may be depended on. Col. 1. Nows the depth of the edge of the board under the furface; 2 . Shows the difcharge by theory; and, 3 , the difcharge actually obferved. The length of the board was $18 \frac{1}{3}$ inches. N. B. The numbers in M. Buat's evperiments are here redaced to Englifh meafure.

| D. | D. Theor. | D. Exp. | E. |
| :---: | :---: | :---: | :---: |
| $1.7-8$ | 506 | 524 | 28.98 |
| 3.199 | 1222 | 1218 | 69.83 |
| 4.665 | 2153 | 2155 | 123.03 |
| 6.753 | 3750 | 3771 | 214.29 |

The lait column is the cubic inches difcharged in a fecond by each inch of the wafteboard. The correfpondence is undoubtedly very great. The greatef error is in the firf, which may be attributed to a much fmaller lateral contraction under fo fmall a head of water.

But it muft be remarked, that the calculation proceeds on two fuppofitions. The height FI is fuppofed $\frac{x}{2}$ of BI ; and 2 G is fuppofed 726 . It is evident, that by increafing the one and diminihing the other, nearly the fame anfivers may be produced, unlels much greater variations of $h$ be examined. Both of thefe quantities are matters of confidera! le uncertainty, particularly the firft ; and it mult be farther remarked, that this was not meafured, but deduced from the uniformity of the expejiments. We prefume that M. Buat tried various values of $G$, till he found one which gave the ratios of difcharge which he obferved. We beg leave to obferve, that in a fet of numerous experiments which we had accefs to examine, BI was uniformiy much lefs than $\frac{7}{2}$; it was very nearly $\frac{3}{4}$ : and the quantity difcharged was greater than what would refult from NI. Buat's calculation. It was farther obferved, that IF depended very much on the form of the wafteboard. When it was a very thin board of confiderable depth, IF was veay confderably greater thais if the board was thick, or narrow, and fet on the top of a broad dam-hcad, as in fig. 21 .

It may be proper to give the formula a form which will correfond to any ratio which experience may difcover betseen BF and IF. Thue, let BI te $\frac{n t}{n}$ BF.

The formula win we $\mathrm{D}=\frac{2}{5} / \sqrt{2 \mathrm{G}}\left(1-\binom{m}{n}^{\frac{3}{2}}\right)^{l / \frac{3}{4}} \underbrace{\begin{array}{c}\text { Prasti al } \\ \text { ridi is }\end{array}}$
Meantime, this theory of M. de Buat is of great value to the practical ongineer, who at prefent muft content himfelf with a very vague conjciture, or take the calculation of the erroneous the ory of Guglielmini. By that theory, the board of three feet, at the depth of four inches, thould difcharge nearly $3 \frac{1}{\text { ro }}$ cubic feet per fecond, which is almoft double of what it really deliyers.

We prefume, therefore, that the following table will be acceptable to practical enginecrs, who ate not familiar with fuch computations. It contains, in the firft column, the depth in Englifh inches from the furface of the flagnant water of a refervoir to the edge of the wafteboard. The fecond column is the cubic feet of water difcharged in a minute by every inch of the wafteboard.

| Dipif. | Difcharge. |
| :---: | ---: |
| 1 | 0.403 |
| 2 | 1.140 |
| 3 | 2.095 |
| 4 | 3.225 |
| 5 | 4.507 |
| 6 | 5.925 |
| 7 | 7.466 |
| 8 | 9.122 |
| 9 | 10.584 |
| 10 | 12.748 |
| 11 | 14.797 |
| 12 | 16.758 |
| 13 | 18.895 |
| 14 | 21.117 |
| 15 | 23.419 |
| 16 | 25.803 |
| 17 | 28.258 |
| 18 | 30.786 |

When the depth does not exceed four inches, it will not be exact enough to take proportional parts for the fractions of an inch. The following method is exact.

If they be odd quarters of an inch, look in the table for as many inches as the depth contains quarters, and take the eighth part of the anfwer. Thus, for $3 \frac{3}{4}$ inches, take the eighth part of $23.4^{19}$, which correlponds to 15 inches. This is 2.927 .

If the wafteboard is not on the face of a dam, but in a running Itream, we mult augment the difcharge by multiplying the fection by the velocity of the ftream. But this correction can feldom occur in practice; becaufe, in this cafe, the difcharge is previoully known; and it is 4 that we want; which is the objcet of the next problem.

We only beg leave to add, that the experiments which we mention as having been already made in this country, give a refult fomewhat greater than this table, viz. about '' ' $\quad$. Therefore, having obtained the anfwer by this table, add to it its 16 ths part, and we apprehend that it will be extremely near the truth.

When, on the other hand, we know the difcharge over a wafteboard, we can tell the depth of its edge un-
L. 2
der

Prectical der the furface of the ftagnant water of the refervoir,


We are now in a condition to folve the problem refpecting a weir acrofs a river.

Prob. II. The difcharge and fection of a river being given, it is required to determine how much the waters will be raifed by a weir of the whole breadth of the river, difcharging the water with a clear fall, that is, the furface of the water in the lower channel being below the edge of the weir ?

In this cafe we have $2 \mathrm{G}=746$ nearly, becaufe there will be no contraction at the fides when the weir is the whole breadth of the river. But further, the water is not now flagnant, but moving with the velocity $\frac{\mathrm{D}}{\mathrm{S}}, \mathrm{S}$ being the fection of the river.

Therefore let $a$ be the height of the weir from the bottom of the river, and $h$ the height of the water above the edge of the weir. We have the velocity with which the water approaches the weir $=\frac{\mathrm{D}}{l(a+h)}$, I being the length of the weir or breadth of the river. Therefore the height producing the primary mean ve-
 little ago will give $h=\left(\frac{\mathrm{D}}{0.43 \mathrm{I} / \sqrt{2 \mathrm{GG}}}\right) \frac{2}{3}$, when the water above the weir is fagnant. Therefore, when it is already moving with the velocity $\frac{\mathrm{D}}{l a+h}$, we fhall have $h=\left(\frac{\mathrm{D}}{0.431 \sqrt{2 \mathrm{G}}}\right)^{\frac{2}{3}}-\left(\frac{\mathrm{D}}{l \sqrt{2 g}(a+h}\right)^{2}$. would be very troublefome to folve this equation regularly, becanfe the unknown quantity $h$ is found in the fecond term of the anfwer. But we know that the height producing the velocity above the weir is very fmall in comparifon of $h$ and of $a$, and, if only eftimated roughly, will make a very infenfible change in the value of $h$; and, by repeating the operation, we can correct this value, and obtain $h$ to any degree of exactnefs.

To illuftrate this by an example. Suppofe a river, the fection of whofe ftream is 150 feet, and that it difcharges 174 cubic feet of water in a fecond; how much will the waters of this river be raifed by a weir of the fame width, and three feet high ?

Suppofe the width to be 50 feet. This will give 3 feet for the depth; and we fee that the water will have a clear fall, becaufe the lower ftream will be the fame as before.

The fection being 150 feet, and the difcharge 174 , the mean velocity is $\frac{1}{2} \mathrm{~T}^{4},=1.16$ feet, $=14$ inclies nearly, which requires the height of $\frac{x}{3}$ of an inch very nearly. This may be taken for the fecond term of the value of $h$. Therefore $h=\left(\frac{\mathrm{D}}{0.43 \times \sqrt{2 \mathrm{G}} /}\right)^{\frac{2}{3}}-\frac{1}{4}$. Now $\sqrt{2 \mathrm{G}}$ is, in the prefent cafe, $=27.313 ; /$ is 600 , and D is ${ }^{2} 74 \times 1728,=300672$. Therefore $h=12.192$ $-0.25,=51.942$. Now correct this value of $h$, by correcting the fecond term, which is : $\frac{1}{4}$ of an inch, in-
us $h=12.192-0.14^{1},=12.051$, differing from the firt value about $\frac{1}{1-1}$ of an inch. It is needlefs to car!y the approximation farther. Thus we fee that a weir, which dams up the whole of the former current of three feet deep, will only raife the waters of this river one foot.

The fame rule ferves for fhowing how high we ought to raife this weir in order to produce any given rife of the waters, whether for the purpofes of navigation, or for taking off a draft to drive mills, or for any other fervice; for if the breadth of the river remain the fame, the water will ftill flow over the weir with nearly the fame depth. A very fmall and hardly perceptible difference will indeed arife from the diminution of flope occafioned by this rife, and a confequent diminution of the velocity with which the river approaches the weir. But this difference mult always be a fmall fraction of the fecond term of our anfwer; which term is itfelf very fmall : and even this will be compenfated, in fome degree, by the freer fall which the water will have over the weir.

If the intended weir is not to have the whole breadth of the river (which is feldom neceffary even for the purpofes of navigation), the waters will be raifed higher by the fame height of the wafteboard. The calculation is precifely the fame for this cafe. Only in the fecond term, which gives the head of water correfponding to the velocity of the river, I muff fill be taken for the whole breadth of the river, while in the firft term $I$ is the length of the wafteboard. Alfo $\sqrt{2 \mathrm{G}}$ muft be a little lefs, on account of the contractions at the ends of the weir, unlefs thefe be avoided by giving the mafonry at the ends of the wafleboard a curved fhape on the upper fide of the wafteboard. This flould not be done when the fole object of the weir is to raife the furface of the waters. Its effect is but trifling at any rate, when the length of the wafteboard is conliderable, in proportion to the thicknefs of the fheet of water flowing over it.
The following comparifons of this rule with experiment will give our readers fome notion of its utility.

| Difcharce of the Weir per Second. | Head pro ducing the velocity at the Weir. | Head producing the Velocity .above it. | Calculated Height of the River above the Wafteboard. | Obferved Height. |
| :---: | :---: | :---: | :---: | :---: |
| Inches. | Inches. | Inches. | Inches. | Inches. |
| 3888 | 7.302 | 0.625 | 6.677 | 6.583 |
| 2462 | $5 \cdot 385$ | 0.350 | 5.035 | 4.750 |
| 1112 | 3.171 | 0.116 | 3.055 | 3.166 |
| 259 | 1.201 | 0.0114 | 1.189 | 1.250 |

It was found extremely difficult to meafure the exact height of the water in the upper ftream above the wafteboard. The curvature AI extended feveral feet up the ffream. Indeed there muft be fomething arbitrary in this meafurement, becaufe the furface of the fream is not horizontal. The deviation flould be taken, not from a horizontal plane, but from the inclined furface of the river.

Practical It is plain that a river cannot be fitted for continued $\underbrace{\text { Inierenees. navigation by weirs. Thefe occafion interruptions; }}$ but a ferv inches may fometimes be added to the waters of a river by a bar, which may ftill allow a flat-bottomed lighter or a raft to pafs over it. This is a very frequent practice in Holland and Flanders; and a very cheap and certain conveyance of goods is there obtained by means of flreams which we would think no better than boundary ditches, and unfit for every purpofe of this kind. By means of a bar the water is kept up a very few inches, and the ftream has free courfe to the fea. The fhoot over the bar is prevented by means of another bar placed a little way below it, lying flat in the bottom of the ditch, but which may be raifed up on hinges. The lighterman makes his boat faft to a ftake immediately above the bar, raifes the lower bar, brings over his boat, again makes it faft, and, having laid down the other bar again, proceeds on his journey. This contrivance anfwers the end of a lock at a very trifling expence; and though it does not admit of what we are accuftomed to call navigation, it gives a very fure conveyance, which would otherwife be impofible. When the waters can be raifed by bars, fo that they may be drawn off for machinery or other purpofes, they are preferable to weirs, becaufe they do not obftruct floating with rafts, and are not deftroyed by the ice.

Prob. III. Given the height of a bar, the depth of water both above and below it, and the width of the river '' to determine the difcharge.

This is by no means fo eafily folved as the difcharge over a weir, and we cannot do it with the fame degree of evidence. We imagine, however, that the following obfervations will not be very far from a true account of the matter.

We may firft fuppofe a refervoir LFBM (fig. 22.) of ftagnant water, and that it has a wafteboard of the height CB. We may then determine, by the foregoing problems, the difcharge through the plane EC. With refpect to the difcharge through the part CA, it fhould be equal to this product of the part of the fection by the velocity correfponding to the fall EC, which is the difference of the heights of water above and below the bar; for, becaufe the difference of $\mathrm{E} a$ and C $a$ is equal to EC, every particle $a$ of water in the plane CA is preffed in the direction of this ftream with the fame force, viz. the weight of the column EC. The fum of thefe difcharges तhould be the whole difcharge over the bar: but fince the bar is fet up acrofs a running river, its difcharge mult be the fame with that of the river. The water of the river, when it comes to the place of the bar, has acquired fome velocity by its đope or other caufes, and this correfponds to fome height FE. This velocity, multiplied by the fection of the river, having the height EB, fhould give a difcharge equal to the difcharge over the bar.

To avoid this complication of conditions, we may firft compute the difcharge of the bar in the manner mow pointed out, without the confideration of the previous velocity of the fream. This difcharge will be a little too fmall. If we divide it by the fection FB , it will give a primary velocity too fmall, but not far from the truth. Therefore we foall get the beight FE, by soeans of which we flatll be able to determine a velocity intermediate between DG and CH , which would cor-
refpond to a weir, as alfo the velocity CH , which cor- practicat refponds to the part of the fection CA, which is wholly $\underbrace{\text { Inferences. }}$ under water. 'Then we correct all thefe quantities by repeating the operation with them inflead of our firft affumptions.

Mr Buat found this computation extremely near the truth, but in all cafes a little greater than obfervation exhibited.
We may now folve the problem in the moft general terms.

Prob. IV. Given the breadth, depth, and the flope of a river, if we confine its paffage by a bar or weir of a known height and width, to determine the rife of the waters above the bar.

The flope and dimenfions of the channel being given, our formula will give us the velocity and the quantity of water difcharged. Then, by the preceding problem, find the height of water above the wafteboard. From the fum of thefe two heights deduct the ordinary depth of the river. The remainder is the rife of the waters. For example :

Let there be a river whofe ordinary depth is 3 feet, and breadth 40 , and whofe flope is $1 \frac{1}{2}$ inches in 100 fa thoms, or high and 18 feet wide.

We mult firft find the velocity and difcharge of the river in its natural ftate, we have $1=480$ inches, $h=$ $3^{6}, \frac{1}{s}=\frac{\text { 4 }}{4800}$. Our formula of uniform motion gives $\mathrm{V}=23.45$, and $\mathrm{D}=405216$ cubic inches.

The costraction obtains here on the three fides of the orifice. We may therefore take $\sqrt{2 \mathrm{G}}=26.1$. N. B. This example is Mr Buat's, and all the meafures are French. We have alfo $a$ (the height of the weir) $7^{2}$, and $2 g=724$. Therefore the equation $h=$ $\left(\frac{\mathrm{D}}{0.431 \sqrt{2 \mathrm{G}} l}\right)^{\frac{2}{3}}-\left(\frac{\mathrm{D}}{l \sqrt{2} g(a+h)}\right)^{2}$ becomes 30.182 . Add this to the height of the weir, and the depth of the river above the fluice is $102.182,=8$ feet and 6.182 inches. From this take 3 feet, and there remains 5 feet and 6.182 inches for the rife of the waters.

There is, however, an important circumftance in this rife of the waters, which muft be dillinctly underftood before we can fay what are the interefting effcets of this weir. This fwell extends, as we all know, to a confiderable diftance up the ftream, but is lefs fenfible as we go away from the weir. What is the diftance to which the fivell extends, and what increafe does it produce in the depth at different diftances from the weir?

If we fuppofe that the flope and the breadth of the channel remain as before, it is plain, that as we come down the flream from that point where the fwell is infenfible, the depth of the channel increafes all the way to the dam. Therefore, as the fame quastity of water paffes through every fection of the river, the velocity muft diminilh in the fame proportion (very nearly) that the fection increafes. But this being an open ftream, and therefore the velocity being infeparably conneated with the flope of the firface, it follows, that the flope of the furface mull diminift all the way from that point where the fiweil of the water is infenifible to the dam. The furface, therffore, cannot be a fimple inclined plane, but ruuft be concave upwards, as repieferled in fig: 23 : whe:e FKLB reprcients the channel Fig. 23 .

Practical of a river, and FB the furicie of the water running in it. $\underbrace{\text { Infiences. }}$ If this be kept up to A by a weir AL, the firface will be a curve FIA, touching the natural furface F at the beginning of the fwell, and the line AD which touches it in A will have the flope S correfponding to the velocity which the waters have immediately before going over the weir. We know this flope, becaufe tre are fuppofed to know the difclarge of the river and its Hope and other circumftances before barring it with a dam ; and we know the height of the dam H , and therefore the new velocity at $\AA$. or immediately above A , and confequently the tlope S . Therefore, drawing the horizontal lines $\mathrm{DC}, \mathrm{AG}$, it is plain that CB and CA will be the primary flope of the river, and the flope S correfponding to the velocity in the immediate neighbourhoood of $A$, becaufe thefe verticals have the fame horizontal dittance DC . We have therefore $\mathrm{CB}: \mathrm{CA}$ $=\mathrm{S}: s$ very nearly, and $\mathrm{S}-s: s=\mathrm{CB}-\mathrm{CA}: \mathrm{CA}$, $=A$ (nearly) : CA . Therefore $\mathrm{CA}=\frac{\mathrm{AB} \times s}{\mathrm{~S}-\mathrm{s}},=$ $\frac{\mathrm{H} s}{\mathrm{~S}-s}$. But DA $=\mathrm{CA} \times \mathrm{S}$, by our definition of flope; therefore $\mathrm{DA}=\frac{\mathrm{H} . \mathrm{S} . \mathrm{s}}{\mathrm{S}-\mathrm{s}}$.

This is all that we can fay with precifion of this curve. Mr Buat examined what would refult from fuppofing it an arch of a circle. In this cafe we thould have $\mathrm{DA}=\mathrm{DF}$, and AF very nearly equal to 2 AD : and as we can thus find AD , we get the whole length Flid of the fwell, and allo the diffances of any part of the curve from the primitive furface FB of the river; for thefe will be very nearly in the duplicate proportion of their diftances from F. Thus ID will be one-fourth of $A B, \& C$. Therefore we fhould obtain the length I $d$ of the flream in that place. Getting the depth of the ftream, and knowing the difcharge, we get the velocity, and can compare this with the flope of the furface at I. This thould be the flope of that part of the arch of the circle. Making this comparifon, he found thefe circumflances to be incompatible. He found that the fection and fwell at I, correfpoziding to an arch of a circle, g ve a difcharge nearly one-fourth too great they were ${ }^{2} 5+55216$ to $4921+2^{2}$. Therefore the curve is fuch, that $A D$ is greater than $D F$, and that it is more incurv. ted at F than at A . He fuund, that mahing DA to DF as 10 to 9 , and the curve FI. an arch of an elliple Whofe longer axis was veitical, would give a very nice e rrefpondence of the fections, velocities, and flopes. The wiale extent of the fivell therefore can never be doutic of $A D$, and mull always greatly furpafs AD ; : nd thefe limits will do very well for every praciical queftion. Therefore making DF nine-tentis of AD, and drawing the chord AD, and making DI one-half of $\mathrm{D} i$, we thall be very near the truth. Then we get the fivell with folicient precifin for any point $H$ hetween F and D , by making $\mathrm{PD} \mathrm{D}^{*}: \mathrm{FII}^{2}=\mathrm{ID}: \mathrm{H} /$; and if H is between D and I , we get i:s dittance from the tangen: DA by a fimilar procels.

It only remains to decermine the fiwell produced in the waters of a river by the ercetion of a bridge or cleaning filice which contrads the paffage. This requires the filution of

Prob. V. Given the depth, kreodth, and flope of a river, to determine the fivell occafioned by the piters of
a bridge or fides of a clesning fluice, which contrat Pastical the paffage by a given quantity, for a given lingth of $\underbrace{\text { lifiecen es }}$ channel.

This fwell depends on two circumflances.

1. The whole river muft pafs through a narrow fpace, with a velocity proportionably increafed; and this requires a certain hend of water above the bridge.
2. The water, in paffing tise length of the piers with a velocity greater than that correlponding to the primary fiope of the river, will require a greater flope ia order to acquire this velocity.

Let V be the velocity of the river before the erection of the bridge, and $\mathbf{K}$ the quotient of the width of the river divided by the fum of the widths between the piers. If the length of the piers, or their dimienfion in the direction of the ftream, is not very great, KV will nearly exprefs the velocity of the river under the arches; and if we fuppofe for a moment the contraction (in the fenfe bitherto ufed) to be nothing, the beight producing this velacity will be $\frac{\mathrm{K}^{2} \mathrm{~V}^{2}}{2 \mathrm{~g}}$. But the river will not rife fo high, having already a flope and velocity before getting under the arches, and the beight correfponding to this velocity is $\frac{\mathrm{V}^{3}}{2 g}$; therefore the height for producing the augmentation of velocity is $\frac{\mathrm{K}^{2} \mathrm{~V}^{8}}{2 \mathrm{~g}}$ $-\frac{\mathrm{r}^{3}}{2 g}$. But if we make allowance for contraction we muft employ a 2 G lefs than 2 g , and we muft multiply the height now found by $\frac{2 g}{2}$. It will then become $\left(\frac{\mathrm{K}^{2} \mathrm{~V}^{2}}{2 g}-\frac{\mathrm{V}^{2}}{2 g}\right) \frac{2 g}{2 \mathrm{G}},=\frac{\mathrm{V}^{2}}{2 \mathrm{G}}\left(\mathrm{K}^{2}-1\right)$. This is that part of the fwell which muft produce the augmentation of velocity.

With refpect to what is necefiary for producing the additional ilope between the piers, let $p$ be the natural flope of the river (or rather the difference of level in the length of the piers) before the erection of the britge, and correfponding to the velocity $V ; \mathrm{K}^{2} p$ will very nearly exprefs the difference of fuperficial level for the lengti, of the piers, which is neceflary for maintainiug the velocity KV through the fame length. The increale of flope therefore is $\mathrm{K}^{2} p-p=p\left(\mathrm{~K}^{2}-1\right)$. Therefore the whole fivell will be $\left(\frac{\mathrm{V}^{\frac{4}{3}}}{2 \mathrm{G}}+p\right) \overline{\mathrm{K}^{2}-\mathrm{I}}$

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Thfss are the chief queltions or probiems on this Further 2tfubject which occur in the practice of an engineer; and tertion to the folutions which we bave given may in every cafe be recome thect depended on as very near the truth, and we a:e confo mended. dent that the errors will never amount to one-fifth of the whole quantity. We are equally certain, that of thefe who call themfelves engineers, and who, without hefitation, undertake jobs of enormous expence, not one in ten is able even to guefs at the refult of fuch operations, unlefs the circuinflances of the cafe happea to coincide with thofe of fome other project which he has executed, or has diftinctly examined; and very few have the fagacity and penctration neceffary for appreciating the cffects of the diftinguifhing circumfances which yet remain. The fociety eftablifind for the en-

Praitical couragement of arts and manufactures could fcarcely do Inferences, a more important fervice to the public in the line of their intitution, ban by publiihing in their Tranfactions a defcrintion of ereyy wurk of this kilid executed in the kingdum, with an account of its p-rtormance. This would be a moit valtialle collection oi experiments and $f$ As. T.e uniearned pra\&tioner whold tiad amorg then lumetairg wirch refembles in its chaef circunitanceralmotian project which could occur to him in his bufinef, and wouid tell him what to expect in the cale under his manasentom: and the intelligent engineer, allited by mathematizal hnowledge, and the habit of cl. Tha dings together, wuald teq;uently be able to frome general rules. To a gentionan qualified as was the Chevalier de Buat, fuch a collection would be ineltimable, and might liggotl a theory as far fuperior to his as he has gone be:ure all other witers.

We flall conclede this article wih fume obf-rvations on the medhods which may be taken for rendering imall rivers and brooks fil for inland ra igation, or at leatt for fiontage. Wie gct much inftruction on this fubject from what has been faid concening the fwell produced in a river by weirs, bars, or any dimimution of its for-
mer fection. Our knowledge if the form which the ferface of this tivell affects, will furnith rules for fpacing thefe obitructions in fuch a manner, and at fuch dillances from each other, that the fwell produced by one fhall extend to the one abuve it.

If we know the liope, the breadth, and the depth of a river, in the droughts of fummer, and have determined on the height of the flood-gates, or keeps, which are to be fet up in its bed, it is evident that their ftations are not matters of arbitrary choice, if we would derive the greateft poffible advantage from them.

Some rivers in Flanders and Italy are made navigabie in fome fort by fimple fluices, which, being firut, form magazines of water, which, being difcharged by opening the gates, raifes the inferior reach enough to fermit the parfage of the craft which are kept on it. After this momentary rife the keeps are fhut again, the water firks in the lower reach, and the lighters which were floated through the fhallows are now obliged to drav into thofe parts of the reach where they can lie afloat till the next fupply of water from above enables them to proceed. This is a very rude and imperfect method, and unjultifiable at this day, when we know the effect of locis, or at leaft of double gates. We do not mean to enter on the confideration of thefe contrivances, and to give the methods of their conltruction, in this place, but refer our readers to what has been already faid on this fubject in the articles Canal, Lock, Navigation (Inland), and to what will be faid in the article $W^{r}$.ITER-Works. At prefent we confine ourfelves to the fingle point of hufbanding the different falls in the bed of the river, in fuch a manner that there may be everywhere a fufficient depth of water: and, in what we have to deliver on the firbject, we Thall take the form of an example to illuftrate the application of the foregoing rules.

Suppofe then a rivar $4^{-}$feet wide and 2 feet deep in the droughts of fummer, with a flope of $I$ in 4800 . This, by the formula of uni:orm motion, will have a velocity $V=23 \frac{1}{2}$ iaches per fecond, and its difcharge
will be $4052: 6$ cubic noches, or $234 \frac{\gamma}{2}$ feet. It is pro- Practical pofed to give this river a depth not lefs than five feet $\underbrace{\text { Infcrences. }}$ in any place, by means of Hood gates of fix Peet high ard 18 feet wide.

We firf compute the heiglt at which thi body of $234 \frac{1}{2}$ cubic feet of water will difcharge it if over tle food-1 ates. This we hiall tind by Piob. If. to be $j=f$ inches, 10 which aduing 72 , the heigtit of the gate, we bave $102 \frac{1}{5}$ for the whole height of the water aoove the floor of the gate; the primitive depth of the river being 3 feet, tice rife or fwell 5 feet $6 \frac{1}{x}$ in hes. In the next place, we find the range or fenlible entent oi thas f.ell by Prob. I. and the obfervations which ace repary it. This will be found to be nearly 9177 fath me. Nuw fince the primitive depth of the river is three fect, there is only wanted two fect of addition; and the quettion is reduced to the finding what point of the curved furtace of the fwell is two fcet above the tangent plane at the head of th:e fwell? or how far this point is from the gate? The whole extent being 9177 fathoms, and the deviations from the targent plane Leing nearly in the duplicate ratio of the ditances from the point of contact, we may inflitute this proportion $66 \frac{1}{2}: 24=9^{1} 27^{2}: 5526^{2}$. The lait tema is the diflance (from the head of the fuell) of that part of the furface which is two fect above the primitive iurface of the river. Therefore $9177-5526$, or 3651 fathoms, is the diftance of this part fiom the flood-gate; and this is the diftance at which the gates fnould be placed from each other. No inconvenience would arile from having them nearer, if the banks be high enough to contain the waters; but if they are farther diflant, the required depth of water cannot be had without increafing the height of the gates; but if reafons of conveniency fhould induce us to place them nearer, the fame depth may be fecured by lower gates, and no additional height will be required for the banks. This is gcnerally a matter of moment, becaufe the raifing of water brings along with it the chance of flooding the adjoining fields, Knowing the place where the f ell ceafes to be fenfible, we can kecp the top of the intermedial floud-gate at the precile height of the curved furface of the fwell by means of the proportionality of the deviations from the tangent to the diftances irom the point of contact.

But this rule will not do for a gate which is at a greater dillance from the one above it than the 365 I fathoms alrcady mentioned. We know that a lifslier gate is required, producing a more extenfive fwel ; and the one fwell does not coincide with the other, althongh they may both begin from the fame point $\Lambda$ (fis. 24.). Fig. 24. Nor will the curves cven be fimilar, unlels the tlickrefs of the flreet of water flowing over the gate be increafad in the fame ratio. But this is not the cafe; lecaufe the produce of the river, and therefore the thicknefs of the flheet of water, is conflant.

But we may fuppofe them fimilar without ersing more than two or three decimals of an inch; and then we fhall have $\Lambda F: A L=j F \cdot D L$; form which, if we take the thicknefs of the theet of water airead'y calculated for the other gates, there will remain the height of the gate BL.

By following thefe methods, inftead of proreeding by random guefles, we fhall procure the greatest Lepth of water at the fmallcft expeace foffible.

But

Practical Inferences. $\underbrace{}_{815}$
Effects of freflies,

But there is a circumflance which mut be attended to, and which, if neglected, may in a fhort time render all our works ufelefs. Thefe gates muft frequently be open in the time of frefhes; and as this channel then has its natural flope increafed in every reach by the great contraction of the fection in the gates, and alfo rolls along a greater body of water, the action of the ftream on its bed muft be increafed by the augmentation of velocity which thefe circumftances will produce: and although we may fay that the general flope is neceflarily fecured by the cills of the flood-gates, which are paved with fone or covered with planks, yet this will not hinder this increafed current from digging up the bottom in the intervals, undermining the banks, and lodging the mud and earth thus carried off in places where the current meets with any check. All thefe confequences will affuredly follow if the increafed velocity is greater than what correfponds to the regimen relative to the foil in which the river holds on its courfe.

In order therefore to procure durability to works of this kind, which are generally of enormous expence, the local circumftances muit be moff fcrupuloufly fudied. It is not the ordinary hurried furvey of an engineer that will free us from the rifk of our navigation becoming very troublefome by the rife of the waters being diminifhed from their former quantity, and banks formed at a fmall diffance below every fluice. We muft attentively ftudy the nature of the foil, and difcover experimentally the velocity which is not inconfiffent with the permanency of the channel. If this be not a great deal lefs than that of the river when acccelerated by frefles, the regimen may be preferved after the eftablifllment of the gate, and no great changes in the channel will be neceffary: but if, on the other hand, the natural velocity of the river during its frefhes greatly exceeds what is confiftent with ftability, we muft enlarge the width of the channel, that we may diminifh the hydraulic mean depth, and along with this the velocity. Therefore, knowing the quantity difcharged during the frefhes, divide it by the velocity of regimen, or rather by a velocity fomewhat greater (for a reafon which will appear by and by), the quotient will be the area of a new fection. Then taking the natural flope of the river for the flope which it will preferve in this enlarged channel, and after the cills of the flood-gates have been fixed, we muft calculate the hydraulic mean depth, and then the other dimenfions of the channel. And, laftly, from the known dimenfions of the channel and the difcharge (which we muft now compute), we proceed to calculate the height and the diffances of the flood-gates, adjufted to their widths, which muft be regulated by the room which may be thought proper for the free paffage of the lighters which are to ply on the river. An example will illuftrate the whole of this procefs.

Suppofe then a fmall river having a flope of two inches in 100 fathoms or $T$, which is a very ufual declivity of fuch fmall ftreams, and whofe depth in fummer is two feet, but fubject to floods which raife it to nine feet. Let its breadth at the bottom be 18 feet, and the bale of its flanting fides four thirds of their height. All of thefe dimentions are very conformahle to the ordinary courfe of thinge. It is propofed to make this river navigable in ell feafons by means of kceps and gates placed at pro-
per diftances; and we want to know the dimenfions of a channel which will be permanent, in a foil which beInferences. gins to yield to a velocity of 80 inches per fecond, but will be fafe under a velocity of 24 .

The primitive channel having the properties of a rectangular channel, its breadth during the frefhes muft be $B=30$ feet, or 360 inches, and its depth $h$ nine feet or 108 inches; therefore its hydraulic mean depth $d=\frac{\mathrm{B} h}{\mathrm{~B}+2 h}=61.88$ inches. Its real velocity therefore, during the frefles, will be 39.9447 inches, and its difcharge ${ }^{1} 5^{1} 4169$ cubic inches, or $876 \frac{7}{4}$ cubic feet per fecond. We fee therefore that the natural channel will not be permanent, and will be very quickly deftroyed or changed by this great velocity. We have two methods for procuring flability, viz. diminifling the flope, or widening the bed. The firf method will require the courfe to be lengthened in the proportion of $2 f^{1}$ to $3988^{3}$, or nearly of 36 to 100 . The expence of this would be enormous. The fecond method will require the hydraulic mean depth to be increafed nearly in the fame proportion (becaufe the velocities are nearly as $\frac{\sqrt{d}}{\sqrt{s}}$ ). This will evidently be much lefs coftly, and, even to procure convenient room for the navigation, muft be preferred.
We muft now obferve, that the great velocity, of which we are afraid, obtains only during the winter floods. If therefore we reduce this to 24 inches, it muft happen that the autumnal frefhes, loaded with fand and mud, will certainly depofit a part of it, and choak up our channel below the flood-gates. We muft therefore felect a mean velocity formewhat exceeding the regimen, that it may carry off thefe depofitions. Whe fhall take 27 inches, which will produce this effect on the loofe mud without endangering our channel in any remarkable degree.

Therefore we have, by the theorem for uniform motion, $\mathrm{V}=27,=\frac{297(\sqrt{d}-0.1)}{\sqrt{s}-\mathrm{L} \sqrt{\sqrt{s+1.6}}}-0.3(\sqrt{s-0.1})$. Calculating the divifor of this formula, we find it $=55.884$. Hence $\sqrt{d}-0.1=\frac{27 \text { inch. }}{\frac{297}{55.884}-0.3}=5.3483$, and therefore $d=30^{\frac{2}{2}}$. Having thus determined the hydraulic mean depth, we find the area $S$ of the fection by dividing the difcharge 1514169 by the velocity 27 . This gives us 56080.368 . Then we get the breadth $B$ by the formula formerly given, $\left.\mathrm{B}=\sqrt{\left(\frac{\mathrm{S}}{2 d}\right)^{2}}-2 \mathrm{~S} \right\rvert\,+\frac{\mathrm{S}}{2 d}$,
$=1802.296$ inches, or 150.19 feet, and the depth $h=$. 31.115 inches.

With thefe dimenfions of the fection we are certain that the channel will be permanent; and the cills of the flood-gate being all fixed agreeable to the primitive flope, we need not fear that it will be changed in the intervals by the action of the current. The gates being all open during the frefhes, the bottom will be cleared of the whole depofited mud.

We muft now fation the flood-gates along the new Sration of channel, at fuch diffances that we may have the depth the floodof water which is proger for the lighters that are to be gates, \&ec. enployed


Practical employed fa the navigation. Suppofe this to be four Inferences. fcet. We muft firft of all learn how high the water will be kept in this new channel during the fummer droughts. There remained in the primitive channel only two feet, and the fection in this cafe had 20 feet eight inches mean width ; and the difcharge correfponding to this fection and flope of $\mathrm{Tr}^{\prime}$. is, by the theorem of uniform motion, 1 30,849 cubic inches per fecond. To find the depth of water in the new channcl correfponding to this difcharge, and the fame flope, we muft take the method of approximation formerly exemplified, remembering that the difcharge D ) is 130849 , and the breadth B is 1760.8 at the botom (the llant fides being four thirds). Thefe data will produce a depth of water $=6 \frac{1}{+}$ inches. To obtain four feet therefore bebind any of the flood-gates, we muft have a fivell of $41_{\frac{2}{3}}$ inclies produced by the gate below.

We mut now determine the width of paffage which muft be given at the gates. This will regulate the thicknefs of the fheet of water which flows over them when thut; and this, with the height of the gate, fixes the fwell at the gate. The extent of this fwell, and the elevation of every point of its curved furface above the new furface of the river, require a combination of the height of fivell at the flood gate, with the primitive flope and the new velocity. Thefe being computed, the ftations of the gates may be affigned, wlich will fecure four feet of water behind each in furmmer. We need not give thefe computations, having alrcady exemplined them all with relation to another river.

This example not only illuftrates the method of proceeding, fo as to be enfured of fuccefs, but alfo gives us a precife inftance of what muft bc done in a cafe which cannot but frequently occur. We fee what a prodigious excavation is neceffary, in order to obtain pernanency. We have been obliged to enlarge the primitive bed to about thrice it former fize, fo that the excavation is at leaft two-thirds of what the other method required. The expence, however, will flill be valtly inferior to the other, both from the nature of the work and the quantity of ground occupied. At all events, the expence is enormous, and what could never be repaid by the navigation, except in a very sich and populous country.

There is anoiher circumilance to be attended to.The navigation of this river by fluices muft be very defultory, unlefs they are extremely numerons, and of fmall heights. The natural furface of the fwell being concave upwards, the additions made by its difierent parts to the primitive height of the river decreafe rapidly as they approach to the place A (fig. 23.), where the fuell terminates; and three gates, cach of which raifes the water one foot when placed at the proper diftance from each other, will raife the water much more than two gates at twice this diftance, each raifing the water two feet. Moreover, when the elevation produced by a -flond-gate is confiderable, exceeding a very ferw inches, the fall and current produced by the opening of the gate is fuch, that no boat can pofiblly pafs up thic river, and it runs imminent ritk of being overfet and frink, in the attempt to go down the ftream. This renders the navigation defultory. A number of lighters colleet themfelies at the gates, and wait their opeaing. They pafs through as foon as the current beromes moderate. This would not, perhaps, be very hurtful in a regulated navi-

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gation, if they could then proceed on thicir voyage. But the baticil fide of the gate which they have jutt now rafed, becaute the channel is now too hlallow for them to proeced. Thofe bound down the river can only go to the next gate, unlefs it has been opened at a time siicey adjuted to the opening of the one above it. The paflage downwards may, in many cafes, be continued, by vesy intelligent and attentive lockmen, but the paffage up muf be exceedingly tedious. Nay, we may fay, that r-hile the paffage downwards is continuow, it is but in a very ferw cales that the pallige upward is practicable. If we add to thefe inconvenicnces the great danger of paflage during the fricthes, while ali the gates are open, and the immenfe and unavoidable accumulations of ice, on occafion even of light frofs, we may fee that this method of procuring an inland navigation is amazingly expenfive, defultory, tedious, and hazardous. It did not therefore merit, on its own account, the attention we have bettowed on it. But the difculior was ablolutely neceflary, in order to fhow what mutt be done in order to obtain effcet and permanency, and thus to prevent us from engaging in a project which, to a perfon not duly and confidently informed, is fo fcafible and promifing. Many profeflional engineers are ready, ard with honeft intentions, to undertake fuch talks; and by avoiding this immenfc expence, and contenting themfelves with a much narrower channel, they fucceed, (witnefs the old navigation of the river Merfey). But the work has no duration; and, not having been found very ferviceable, its ceflation is not matter of much regret. The work is not much fpoken of daring its continuance. It is foon forgotten, as well as its failure, and engineers are found ready to engage for fuels another.

It was not a very refined thought to change this In ${ }^{11}$. imperfect mode for ansther free from moft of its incon-tion of veniences. A boat was brought up the river, through weck. one of thefe gates, only by raifing the waters of the inferior reach, and deprefling thofe of the upper: and it could not efrape obfervation, that when the gates were far afunder, a valt body of water muft be difcharged before this could he done, and that it would be a great improvement to double each gate, with a very fmall diftance between. Thus a very fmall quantity of water would fill the interval to the defired height, and allow the boat to come through; and this thought was the more obvious, from a fimilar practice having preceded it, viz. that of navigating a fmall river by means of double. bars, the lowe?t of which lay that in the bottom of the river, but could be raifed up on hinges. We have mentioned this already; and it appears to have been an old practice, being mentioned by Stevinus in his valuable work on fluices, publifhed about the boginning of the laft century; yet no trace of this method is to be found of much older dates. It occurred, however, acciden ally, pretty often in the flat countries of Holland and Flanders, which being the feat of frequent wars, almoft tvery town and village was forlified with wet ditches, connected with the adjoining rivcrs. Stevinus mentions particularly the works of Condé, as having heen long cmployed, with great ingenuity, for rendering navigable a very long ftretch of the Sclieldt. The boats were received into the loweer part of the foffec, which was feparated from the selt by a fone batardea:, ferving to
whetinat keeg up the waters in the teft of the foffee about eight Iufsiti.ic. feet. In this was a lluice and another dam, by whici the boats could be taken into the uyver tofe which commumicated with a remotc part of the Scheldt by a long ramil. Whes apmears to be ore of tiee earlicit lock:.

In the firl attempt to introduce this improvement in the navigation of rivers slready kept up by weirs, which gave a pratual and interrupted navigation, it was ufinal to avid the great expence of the fecord dam and gate, by r.aking the luek aitogrether detached from the river, withen band, and having its balion varallel to the river ond commuacenting by one end with the river Whe e tie weir, wath ly the other end with the river below the weir, and having a floud-ga'e at each end. This was a moit ingenious thought; and it was a prodinious ixaprovement, free fiom all the inconveniences cf cursents, ice, \&ic. \&ec. It was called a coldulfol, or leck, with corfiderable propriety; and this was the origin of the word /luice, and of our application of its trer:fiation .or $k$. This praatice being once introduced, it was nut lang before engineers found that a complete feparation of ihe navigation frem the bed of the river was not only the moft periet method for obtaining a fure, eafy, and uninterrupted navigation, but that it was in general the moll ceconomical in its firft conftruction, and fubject to no rifk of deterioration by the acton of the current, which was here entircly removed. Lucked canals, therefore, have almoft entirely fupplant-- all a:tempts to improve the natural beds of rivers; and this is hardly ever attempted except in the flat countries, where they can hardly be faid to differ from horizontal carals. We therefore clofe with thefe ob. frvatiors this article, and referve what is set to be faid on the conflruetion of canals and locks for the article Firster.IFaks.

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Conaiuding to the redur.
 ansiely to render this difiertation worthy of his notice, hy makirs it praciically ufetul. We lave on every eccafion appenles, trum all theoretical deductions, howcver fpecious and well fupported, to fact and obfervation of thoie fpontaneous phenomena of nature which are continually paling in revices before us in the motion of running waters. Fetting in this mamer our whole coctrines on experiment, on the obfervation of what really happens, and wliat happens in a way which we carnot or do not fully explain, thele fpontaneous operations of nature came infenfibly to acquire a particular value in our imagination. It has alfo happened in the courfe of our reliections on thefe fubjeets, that thefe pheromena have frequently prefented themfelves to our view in groups, not lefs remarkable for the extent and the importance of their confequences than for the fimplicity, and fiequeatly the feeming infignificancy, niy frivolity, of the meanis empleyed. Our fancy has therefore teen fonetimes warmed with the view of a fomething; an

## Ens agitans molenn, et magno fe corpore mifeens.

This has fometimes made us exprefs ourfelves in a way that is fufceptible of mifinterpretation, and may even thad into a miflake of our meaning.

E R.
We therefore And cuafelves obiged to declare chat Praxical by the term Nisture, which we have fo frequcutly $\underbrace{\text { Irierencss }}$ nifed con a more, we do not mean that indecurable idol which the felf corceit and vanisy of fume philofoghers or pretended p.ilorophers lave fet up and ontentatioufy wothipped, tat crs cationis, that crealure of the inagination, which has lo:g been the ol ject of cool contemplation in the cloct of the philolopher, and has 1:ared his attention with many other play:hings of his ever-working fancy. By zatire, then, we mean that aduirable fyttem of general laws, by which the adored Author and Governer of the univerle has thought fit to comect the varicus parts of this wonderful and goodly frame of things, and to. regolate all their operations.

We are not afraid of continually appealing to the laws of nature: and as we have already oblerved in the article Philosophy, we confice the e general laws as the moft magnificent difplays of Infinite IIiliom, and the contemplation of them as the moft cheering employment of our underfandings.

## Igners ef ithis vigor et calefits arigo Seminibus.

At the fame time we defpife the cold-l aarted fhiiofopher who flops flhort here, and is fatisfied (perhaps inwardly pleated) that be has completely accounted for every thing by the laws of unchanging nature; and we fufyect that this plitofopher would avalyfe with the fame frigid ingenuity, and explain by irrefillible sogrn, the tender a:tachreent of her whofe breaft he focked, and who by many anxious and fleeplels nights preferted alive the puling infant. But let us rather lifen to the words of him who was the mof fagacious oblerver and the moft faithful interpreter of nature's laws, our illuhtrious countryman Sir lfacac Newton. He fays,
"Elegantinima hrecce rerunicompages non nifi conslio et dominio ents fapientiflimi et potent:fimi oriri pettit. Omnia, fimili conftrecta confilio, fuberunt urius cominio. Hic omnia regit, non ut anima mundi, fed ve univerforum dominus. Propter dominium fuum dominus deuc, *avzox̧aräg nuncupatur. Deus ad fervientes refpicit, et deitas eft dominatio dei, non in corpus propriom, uti fentiunt quibus deus eft natura feu anima mundi, fed in fervos. Deus fummseft ens eternem, in finitum, abfolute perfechum. Ens utcunque perfectum, at fine dominio, non eft dominus deus.
" Hunc cognofcimus, fulummodo per proprictates cjus et attributa. Attribuuntur ut ex phenomenis dignofcuntur, Phenomena funt fapientiffmæ et optimæ rerum flructurre, at ramur ob perfectiones; hunc veneramur ei colimus ob dominium."

Our reacers will probably be pleafed with the following lift of authors who have treated profeffedly of the motions of rivers: Guglielmini De Fluviis el Capeltis Aquarum-Danukius 1liufiratus; Grandi De Cafellis; Zendrini De Motu Agucrum; Frifus de Fluviis; Leechi Idrafatica i Idraulica; Michelotii Spereinze 1 d:auliche; Belidor's Architefiure Hydraulique; Boffut Hydrodynamique ; Buat Hyaraulique; Silterfchlag Theorie des Flcuves; Lettres de M. L'Epinaffe au P. Frig touchant fa Thecrie des Fleuves; Tableau des principales Rivieres du Monde, par Genctié; Stevins fur. Les Eclufes; Traité des Eclufes, par Boularch pui a remporié to Prix

Prastal de l'Acad. de Luoss; Bieifweck Dillertatio de Agg.ri$\underbrace{\text { Inièrences. bus; Boffut er Viallet fur la Conprugiian des Disucs; }}$ Stevin Hydrofictica; ' ichman van der Hort Thzarume MLachineram Univerfale; De la Lande fur la Canau: de Navigation; Racolka di Autori chi Tratrano dil Moto defl' Acque, 3 tom. 4to. Firenza $1 ; 23$.- This mont


## R I V

RIVER-ITater. This is gencra?! moch fofier and better accommodated to economical purpofes than foring-water. For though sivers proceed origirally from fprings, 'yet, by their rapid motion, and by being expored during a long courie to the influence of the fun and air, the eariby and metallic falts which they contain are decompofed, the acid fliss off, and the terrettrial parts precipitate to the botom. Rivers are alfo rendered fotier by the valt quantiky of rain-water, which, palfing along the furface of the earth, is convered into their channels. But all rivers carry with them a great deal of mud and other impurities; and, when they flow near large and populous towns, they become impregnated with a number of heterogenesus fubitances, in which ftate the water is certainly unfit for many purpoies; yet, by remaining for fome time at reft, all the feculcacics fubfide, and the water becomes fufficiently pure for moit of the common purpofes of life. River water may be rendered ftill purer by filtration through fand and gravel; a method which was firit reforted to in Painley, and more lately in Glafgow, for fappiying the inhnbitants of thofe townis with good water.

## rivers, Earl. See thodevile.

RIVINA, a genus of plants belonging to the tetrandria class. See Botany Index. This plant is called Solonides by Tournefort, and Piercea by Miller. There are four fpecies which grow naturally in moft of the itlands of the Weft Indies. The juice of the berries of one fpecies will flain paper and linen of a bright red colour, and many experiments made with it to colour tlowers 'Have fucceeded extremely well in the following mianner: the juice of the berries was preffed out, and mixed with common water, puting it into a phial, fhaking it weil together for fume time, till the water was thoroughly tinged; then the flowers, which were white and juft fully blown, were cut off, and their nalks placed into the phial; and in one night the flowers have been finely variegated with red; the flowers on which the experiments were made were the tuberofe, and the double white narcifus.
RIVULET, a diminutive of river. See Rivr.r.
ROACH. Sre Cyprinus, Iehthyolngy Inder.
'ROAD, an open way, or public paffage, forming a commanication bettieen one place and another.

Of all the people in the world the Romans took the mott pains in forming roads; and the labour and expences they were at in rendefting them fracious, firm, fraight, aid froooth, are licresible. They ufually frengthened the groind by ramming it, laving it with fints, pe'sles; or fands, and fanctimes with a lining of mafonyy, rubbilh, bricks: \&zc. bound orether with mortar. In fome places in the Iyotiois, 1: Meneitrier offerves, that he hias' found tage clufers of finis cemeisted with lime, reaciing 10 or 12 feet deep, and

## P I V

making a mals as hasd and compret as marbicic; ana which, after refffing thic injuries of time for 1 too yent, is ilill frarcely penctrable by ali the force of haminers, mattocks, \& C. and yet the flints it conffifs of are not tigger than cygs. The moft nobie of the Roman roads was the Via Appia, which was carricd to fuch a wal length, that Procopius reckons it five days journcy to the end of it, and Leipfics compates it at 350 miles: it is 12 feet broad, and made of fquare frec-tione gcnerally a foot and a half on cach fide; and though this has lialed for above 1800 years, yet in many places it is for feycral miles together as entire as when it was firth made.

The ancient roads are ditinguilhed into miniilary roads, double roads, fubterraneous roads, \&ce. The military roxds were grand roads, formed by the Fomanis for marching their armies ir 10 the protinces of the cmpire ; the principal of thefe Roman roads in England are Watling.freet, Ikenild-flreet, Fofs-way, and Erminage ffreet., Double roads among the Romaris, were roads for carrages, with tro parements, the one for thofe going one way, and the other for thofe returning the other : thefe were feparated from each other by a caufcway raifed in the middle, paved with bricks, for the conveniency of foot paffengers; with borders and niounting fones from fpace to fpace, and nililiary columns to mark the diftance. Subterraneous roads are thofe dng through a rock, and left vaulted; as that of Ptzzzuoli near Naples, which is near hale a league long, and is is feet brodd and as many high.

The firt law enacted refpecling higlways and roads in England was in the ycar 1285 ; when the lords of the foil were erjoined to enla:ge thofe rumys where bufhes, woods, or ditches be, in o:der to prevent robberiez. The next law was madc by Edwaid III. in the year 1346 ; whicn a commifion was granted by the king to lav a toll on all forts of carringes paffing from the hof. pital of S: Giles in the fields to the bar of the Old Tcmple, and alfo through another highw ay called Portpool (now Gray's Inn Lane) joined to the before-named highway ; which roads were become alnott impaffable. Little further relating to this fubject occurs, till the reign of Henry VIII. when the parifhes were entrufted with the care of the roads, and furveyors were annually eleged to take care of them. But the increale of luxury and commerce introduced fuch a number of heavy carriages for the conveyance of goods, and lighter outs for the convenience and cafe of travelling, that parin. aid was found futticient to keep the bedl frcqueuted poyds in repair. This introduced toll gates or turnpikes; that fomething might be paid towards their lupport ly every indicidaal who enjoyed the berefit of thefe improre-: mente, by pafling over the reads: .... * Speaking of roads, the Abbe Raynal jufly remarks. M 2
" Let
valuable colleation contains the writings of Archinedes, Albizi, Galiko, Caftelli, Michelini, Borclli, Montanari, Viviani, Cafini, Guglielmini, Grandi, Manfredi, Picard, and Narduci; and an account of the numberlefs works which have been carricd on in the enberkment of the Po. $=$ $-$ r

## R O B

R..d . Let us travel over all the countrics of the earth, and wherever wc fu. 12 find no facility of trading from a city to a $10 . \mathrm{n}$, and from a village to a hamlet, we may pro-
nounce tbe people to be barbarians; and we fhall only te deceived refpecting the degree of barbarifm."

Road, in Na-igatzon, a bay, or place of anchorage, at fome difance from the fhore, whither fhips or veffels occafionally repair to receive intelligence, orders, or necellary fupplies; or to wait for a fair wind, \&c. The excellence of a road confifts chiefiy in its being protected from the reigning wiads and the fwell of the fea; in having a 5 cod anchosing-ground, and being at a competent dijtance from the fhore. Thofe which are not fufficiently inclofed are termed open roads.

ROAN, in the manege. A roan horfe is one of a bay, forrel, or black colour, with grey or white fpots interfperfed very thick. When this party-coloured coat is accompanied with a black head and black extremities, he is called a roan horfe with a black-a-moor's head: and if the fame mixture is predominant upon a deep forrel, he is called claret roan.

ROANOAK, an ifland of North America, near the coait of North Carolina. Here the Englifh firft attempted to fettle in 1585 , but were obliged to leave it for want of provifions, E. Long. 75. O. N. Lat. 35 . 40.

Roanoak, a river of North America, which rifes in Virginia, ruhs through Carolina, and at length falls into the fea, where it forms a long narrow bay called Albemarle found.

ROASTING, in metallurgic operations, fignifies the diffipation of the volatile parts of an ore by means of heat. See Ores, Reduction of.

ROB, in Pharmacy, the juices of fruits purified and infpilated till it is of the confiftence of honey.

ROBBERY, the rapina of the civilians, is the felonious and forcible taking, from the perion of another, of goods or money to any value, by violence or putting him in fear. 1. There muft be a taking, otherwife it is no roobery. A mev, attempt to rob was indeed held to be felony fo late as Henry IVth's time; but afterwards it was taken to be only a middemeanour, and punifhable with fine and imprifonment ; till the fatute 7 Geo. II., c. 21. which makes it a felony (tranfportable for feven years) unlawfully and malicioully to affault another, with asy offenfive weapon or infrument ;-or by menaces, or by other forcible or violent manner, to demand any mosey or goods; with a fclonious intent to rob. If the thicf, having once taken a purfe, returns it, ftill it is a robbery: and fo it is whether the taking be flrictly from the perfon of another, or in his prefence unly; as where a rolber by menaces and violence puts a man in fear, and drives away his fheep or his cattle before his face. 2. It is immeterial of what value the thing taken is: a penny, as well as a pound thus forcibly extorted, makes a robbery. 3. Lafly, thic taking mult be by force, or a previous putting in fear; which makes the violation of the perfon more atrocious than privately ftealing. For, according to the maxim of the sivil law, "qui vi rapuit, fur improbior effe vidétur." This previous violence, or putting in fear, is the criterion that dillinguifhes robbery from other Tareenies. For if one privately fteals fixpence from the perfon of another, and afterwards keeps it by putting him in fear, this is no robbery, for the fear is fublequent : neither is it
capital as privately ftealing, being under the value of Robbery, twelvepence. Not that it is indeed necellary, fhough ufual, to lay in the indiefment that the robbery was committed by putfing in fear : it is fufficient, if laid to be done by violence. And when it is laid to be done by putting in fear, this does not imply any great degree of terror or affiright in the party robbed: it is enough that fo much force or threatening, by word or gefture, be ufed, as might create an apprehenfion of danger, or induce a man to part with his property without or a gainft his confent. Thus, if a man be knocked down without previous warning, and ftripped of his property while fenfelefs, though ftrietly he cannot be faid to be put in fear, jet this is undoubtedly a robbery. Or, if a perfori with a froord drawn begs an alms, and I give it him through miftruft and apprehenfion of violence, this is a felonious robbery. So if, under a pretence of fale, a man forcibly extorts money from another, neither flall this fubterfuge avail him. But it is doubted, whether the forcing a higler, or other chapman, to fell his wares, and giving him the full value of them, amounts to fo heinous a crime as robbery.

This fpecies of larceny is debarred of the benefit of clergy by ftatute 23 Hen. VIII. c. 1. and other fubfequent flatutes; not indeed in general, but only when committed in a dwelling-houfe, or in or near the king's highway, A robbery, therefore, in a diftant field, or footpath, was not punifhed with death; but was open to the benefit of clergy, till the fratute 3 and 4 W . and M. c. 9. which takes away clergy from both principals and acceffories before the fact, in robbery, wherefoever committed. See Law, No clxxxvi. 20.

ROBERT brucf, king of Scotland, in 1306; a renowned general, and the deliverer of his country from a ftate of vaffalage to the Englifh. See Scotlayd.

Robeat, king of France, furnamed the Wife and the Pious, came to the crown in 996 , after the death of Hugh Capet his father. He was crowned at Orleans, the place of his nativity, and afterwards at Rheims, after the imprifonment of Charles of Lorraine. He married Bertha his coufin, daughter of Conrad king of Burgundy; but the marriage was declared null by Gregory V.; and the king, if we can give credit to Cardinal Peter Damien, was excommunicated. This anathema made fuch a noife in France, that all the king's courtelans, and even his very domeftics, went away from him. Only two continued with him ; who were fo deeply impreffed with a ferife of horror at whatever the king touched, that they purified it with fire : this fcruple they carried fo far, as to the very plates on which he was ferved with his meat, and the veffels out of which he drank. The fame cardinal reports, that as a punifhment for this preterded inceft, the queen was delivered of a monfter, which iad the head and neck of a duck. He adds, that Robert was fo flruck with aftonilhment at this fpecies of prodigy, that he lived apart from the queen. He contracted a fecond marriage uith Conftance, daughter of William count of Arles and Provence; but the arrogant difpofition of this princefs would have totally overturned the kingdom, and thrown it into confufion, had not the wifdom of the king prevented her from intermeddling with the affairs of the ftate. He carefully concealed from her whatever acts of liberality he thowed to any of bis domeftics."Take care (faid he to them) that the queen don't perceive

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R'osett. it." Henry: duke of Burgundy, brother of Hugh Capet, dying in 1002, without lawful iflue, left his duhedom to his sephew the king of France. Fobert invefted his feoond fon Henry with this dukedom, who afterwards coming to the crown, refigned it in favour of Robert bis eadet This dake Robert was cbicf of the firtt royal branch of the dukes of Burgundy, who flourithed till 1361. This dukiedom was then re-united to the crown by King John, who gave it to his fuurth fon Philip the Bold, chief of the fecond houfe of Burgundy, whicb was terminated in the perfon of Charles the Rath who was thain in 1477. King Robert was fo much efteemed for his widom and prudence, that he was offered the empire and kingdom of Italy, which, however, he declined to accept. Hugh, called the Great, whom he had had by Conftance, being dead, he caufed his fecond fon Henry I. to be crowned at Rheims. He died at Melun, July 20. 1031 , at the age of 60 . Robert was, according to the knowledge of the times, a wife prince. Helgand, friar of Fleury, relates, in his Iife of him, that, to prevent his fubjects from falling into the crime of perjury, and incurring the penalties which followed thereon, he made them fwear upon a flrine from which the relics had been previoufly removed, as if intention did not conititute perjury! and long after fimilar reafoning was adopted. Robert built 2 great number of churches, and procured a reftitution to the clergy of the tithes and wealth which the laylords had made themfelves mafters of. The depredations were fuch, that the laity pofiefled the ecclefiaitical treafures by hereditary titles; they divided them among their children; they even gave benefices as a dowry with their daughters, or left them to their fons as lawful inheritance. Although Robert was pious, and although be refpected the clergy, yet it was evicent that he oppofed the bifhops with a firmnefs and refolution, of which, for many ages, they had no examples. Lutheric archbibop of Sens had introduced into his cliocele the cuftom of proving by the eucharift perfons accufed as guilty of any crime. The king wrote to him in the following ftrong terms:-"I fwear (fays he) by the faith I owe to God, that if you do not put a fop to the grofs abufe complained of, you thall be deprived of your priefthood." The prelate was forced to complv. He punifhed, in 1022 , the Manichéens, canons of Orleans, by burning them at the ftake. There are, however, recorded of him fome lefs fevere actions, which it is right to meation. A dangerous confpiracy againft his perion and government having been difcovered, and the authors taken into cuftody, he feized the moment when their judges had met to fentence them to death, to caufe an elegant repaft to be ferved up to them. Next duy they were admitted to the eucharitt. Then Robert told them, that he gave them their pardon, "becaufe none of thofe can die whom Jefus Cbrift came to receive at his table." One day when he was at prayers in the chapel, he penacived a thief, who had cut off the half of the fringe of his mantle, proceeding to take the remainder; "Friend (kays he with a pleafant countensuce), he contert with what you have already taken, the ret will very wall ferve fome other." Iiubert culfivated, and was a pairomizer of the fcicaces. There ere feveral hymins wrote by him, which fill conitinue to bo füng in the churcli Jijs seign was bappy and tran-

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quil. According to fome authors, he inftituted the order Bobert of the Star, commonly attributed to King John.

KOBERT of France, fecond fon of Louis VIII. and brother to St Louis, who ereeted in his favour Artois into a royal peerage in the year 1237 . It was during this time that the unlucky difference between Pope Gregory 1X. and the emperor Frederic II. took place.. Gregory offered to St Louis the empire for Robert; but the French nobleffe, having met to deliberate on this propofal, were of opinion that he ought to reject it. He gave the pope for anfwer : "That Count Robert efteemed himfelf fufficiently honoured by being the brother of a king, who farpafied in dignity, in frength, in wealth, and in birth, all other monarchs in the world." Robert accortpanied St Louis into Egypt, and fought with more bravery than prudence at the battle of Maffoure, on the 9 th of February 1250. In his purfuit of the cowards through a certain fmall village, he was killed by ftones, Aticks, and other things which they threw: at him from the windows. He was an intrepid prince, but too paffionate, dogmatical, and quarrelfome.

Robert II. Count of Artois, fon of the preceding, furnamed the Good and the Noble, was at the expedition into Africa in $12 \%^{\circ}$. He drove the rebels from Navarre in 1276 . He brought a very powerful affiftance to Charles I. King of Naples, of which kingdom he was regent during the captivity of Charles II. He defeated the Arragonians in Sicily in 1289 , the Englifh near Bayonne in 1296, and the Flemifh at Furnes in 1298. But having in 1302 imprudently attempted to force thefe laft, when encamped near Courtray, he received no lefs than 30 wounds; and in that expedition loft both his honour and his life. He was a brave, but paffionate and fierce man, and good at nothing but pugiliftic encounters. Mahaud his daughter inherited the dukedom of Artois, and gave herfelf in marriage to Otho duke of Burgundy, by whom the had two daughters, Jane wife of Philip the Long, and Blanche wife of Charles the Fair. In the mean time Philip, fon of Robert II. had a fon.

Robert III. who difputed the dukedom of Artois with Mahaud his aunt ; but he loft his fuit by two fentences given in againt him in 1302 and 1328 . He wifhed to revive the procefs in 1320 , under Philip of Valois, by means of pretended new titles, which were found to be falfe. Robert was condernned the third time, and banifhed the kingdom in 1331. Having found an afylum with Edward III. king of England, he undertook to declare him king of France; which proved the caufe of thofe long and cruel wars which diftreffed that kingdom. Robert was wounded at the fiege of Vanses in $134^{2}$, and died of his wound in England. John, fon to Robert, and count of Eu, was taken prifoner at the battle of Poiticrs in 1356 , and terminated his career in 1387 . His fon Plilip 11. high confable of France, carried on war in Africa and Hungary, and died in 1397, being a prifoner of the Turks, Ile had a fon named Charles, who died in $\mathbf{1 4 7 2}$, leaving na iffue.

ChtAfitrs of Injou, furnamed the Wife, third fon of Charles the Lame, fueceeded lis fatlier in the kingdom of Naples in 1329 , by the protection of the popes, and the will of the people, to tbe exclufion of Chatohert fon of his eidell brother, Ie wided the Roman pontiffs

Rober:. againt the emperor Henry VII, and, after ine death of that prince, was norinated in 1313 vicar of the empire in ltals, in temporal matters, unlefs a new emperor was elected. This titic was given him by Clement. V. in virtue of a riglet which he pretended to have to govern the erapire during an interregnum. Robert reigned with glory 33 years, eight monthes, and died on the 19 th of January $13+3$, aged 64 . "This prince (fays M. De Montigni) had not thofe qualities which conftitute heroes, but he kad thofe which make good kings. He was rcligious, affable, generous, lind, wile, prudent, and a zealous promoter of juftice." He was called the Soloran of his age. He loved the poor, and caufed a ticke: to be placed upon his palace, to give notice when he meant to ditribute from the throne. He had no other pation but a roy great love for learning. He ufed to fay, that lie would rather renounce his crown ihan lis frudy. Ihis court foon became the fanctuary of the fciences, rilich he encoaraged equally by his exsmple aid his bounty. This prince was velfed in theology, jarifrudence, philofophy, mathematics, and medicine. Bocace fays, "t that fince the days of Solomon we have not feen fo wife a prince upon the throne." For a gtest part of his life he had no tafte for poetry; he even defpited it, as, in lis opinion, unworthy of a man of learning. A converfation which he had with Pe trarch, however, undeccived him; he retained this poet at his court, and attempted hinifelf to write fome poems, which are fill extant. He was forced to engage a little in war, for which he poffeffed no greet talents; alluding to which, may be feen on his tomb a wolf and a lamb drirking out of the fame veffel. Philip of Valois refrained from giving battle in 1339 , by the repeated advice which this prince gave him, who was a great friend to France, both from inclination and intereft. He detelted quarrels among Chriftian princes, and had ftudied the fience of attrology, not fo much to lnow the courfe of the ftars, as to learn by this chimerical fcierce the hidden things of futurity. He believed that he read in the grand bouk of heaven a very great misfortune which would bef.: 1 France if Philip hazarded a battle againft the Englilh.

Robent the Firf, called the Magnificent, duke of Nermandy, femen of Richard 11. Jucceeded in 1028 his brother lichand 111. whom it is reported he poiloned. He had carly in his reign to fupprefs frequent rebellions of feseral of the great valfals. He re-eftablinhed in his eflates Baudouin IV. count of Flanders, who had been unjuftly ftript of his poffeflions by his own fon. He forced Canute king of Denmark, who was alfo king of England, to divide his poffeffions with his coufins Alfred and Edward. In the year 1035, he undertook barefooted a journey th the Holy Land; on his return from which he died, being poifoned at Nice in Bithynia, leaving as his fucceffor Wiflliam his natural fon, afterward king of England, whom he had caufed before bis depat tre to be publicly acknowledged in an afficmbly of t ! e Raics of Normandy.

Roestit, or Ruperit, furnamed the Short and the Mil?, el:? $\frac{1}{r}$ Palatine, fon of Robert the Niggandly, W... I ${ }^{-1 n}$ in 1352 , and clected cmperor of Cermany in 1428, fier the depofition of the cruel Wenerflas. In order to pain the affection of the Germans, be wilhed in refinir Milanes to the empire, which Wenceflas had lakeu irom it ; but his etlempts in this refpect were
unfucceffful: His attachment to the anti-pope Giegery X11. cntirely alienated the afiections of the German princes. To fuch a degree were they incenfed agamit| him, that they entered into a confipiracy to cut him off 3 but his death, which happened on the 18th of May 1.410, being then 58 years old, put a fop to their masi chinations. liobert began to fettle the dovereignty of the Geriman princes. The temperois had formerly te- $-\frac{7}{}$ tained in their own-dands the power of sife and "death;" within the territories of a great many of the nobles; but he yielded them this right by his letters phatent.-The chief fault imputed to this prince was an excefs of lenity. But, if we confider the plots which he had to detect, the confpiracies which he had to fruftrate, the fecret and powerful enemies he had to deal with; if we inquire alfo into the commotions which the wicked adminitration of Wenceflas lad excited, the irruotions and devaftations of plunderers and highway robbers, which the nobles countenanced, and the eiflreifed fituation in which he found Germany, we muft without hefitation concluce, that his lenity indicated his prudence, in refloring by flow degrees the empire to its original tranquility. Robert had his virtues, he loved his fubjects, and governed them with wifdom. Poffefled of much political knowledge for the age in which he lived, he wanted nothing but talents for war to make him an accomplifhed prince. He was twice married. The name and rank of his firf wife is unknown; he had by her a fon, who died before him. His fecond wife was Elizabeth, drughter of Frederic burgrave of Nuremberg, by uhom he had five fons and three daughters. The three daughters were, Margaret manied to Charles duke of Lorrain ; Agnes to Adolphus duke of Cleves ; Elizabeth to Frederic duke of Auftria. His fons were, Louis the firf of the electoral branch, which became extinct in 1559 ; John father of Chrifopher king of Denmark; Frederic who died without iflue; Otho count of Sintfheim; laftly, Stephen, from whom defcended the elertor, and the other counts palatine of the Rhine, who are extant at this day.

ROBERT of Bavaria, prince palatine of the Rhine, and duhe of Cumberland, the ion of Frederic, elector palatine, by Elizabeth, daughter of James I. king of England, diftinguifled himfelf by his valour as a general and admiral ; firlt in the Dutch, and then in the Englifh fervice. He uas unfuccelsful in the caufe of his uncle Charles 1. againft the parliament forces; but under Charles 11. he defeated the Dutch fleet, and was made lord high admiral of England in 1673 . This prince was a lover of the fciences, and particularly 0kilful in chemiftry. He died in 1682 .

ROBERTSON, Dr. William, one of the meft celebrated hiftorians of his age, was one of thofe great characters, whole private life, flowing in an even and unvaried Atream, can afford no important information to the biographer, althotugh his writings will be read to the lateft pofterity with undiminifhed pleafure. He was born at the manfe of Bortiwick in the year 1721. His father was, at the time of his death, one of the ninifters of the Old Grey Friars church in Edinburgh, which the Joctor came afterwards to fupply. In 1743 he was lisenced preacher, and placed in the parifh of Gladfmuir in 1744 ; whence, in 1758 , he was tranflated to Lady Yeftel's parifh in Edinburgh. In 1761, on the death of Principal Goldie, he wai elected principal of

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fermon preached at Edinburgh before the focicty for Robertiun, propagating Clysiltian knowledge, and afterwards puolillied; the fubject of which was, 'Tle flate of the world at the appearance of Jcfus Chrill., The ingenuity with which a number of detached circumflances are there colleched, and flown to tend to one fingle point, may perhaps rival the art which is fo much admired in thic bihop of Meaus's celebrated Univerfal Hitory.

This fcrmon did great honons to the author ; and it is probably to the repatation he gained by it, that we ought to attribute the unanimity with which be was called to be one of the minifters of Edinburgh-an crent which happened not long after, viz. in the year 1758. In 1759, he publifhed, in tivo velumes quarto, 'The Hiftory of Scollind, during the reigns of Queen Mary and of King James VI, till his Acceltion to the Crown of England, with a Review of the Scots Hiltory previous to that period.' 'This work in its dtucture is one of the moit complete of all modern hitories. It is not a dry jejune narrative of events, deftitute of ornament; nor is it a mere frothy relition, all glow and coloaitig. The hitorian difcovers a fufficient ftore or imagination to engage the reader's atteation, with a due proportion of judgement to clieck the exuberance of fancy. The arrangement of his work is admirable, and his deferiptions are animated. His Ayle is copioue, nervous, and correct. He has difplayed confammate tkill in rendering fuch paftiges of our hiftory as are familiar to our recollection agreeable and entertaining. He has embellifhed old materials : ith all the elegance of modern drel's. He has very judicioully avoided too circumftantial a detail of trite facts. His narratives are fuccinct and fpirited; his retlections copious, frequent, and generally pertinent. His lentiments refpecting the zuilt of Mary have indeed been warmly controverted by Meffrs Tretler, Stuart, and Whitaker ; and, till the publication of Mr Laing's Diflertation on the fame fubject, (fee Mary, life of) the gemeral opinion fcemed to be, that their victory was comp?cte. That vietory, however, on the part of Whitake:, is fullied by tie acrimony with which he writes. Dr Roberton was no rancorous or malignant enemy of the unfortunate queen. While relating, what he doublefs lelieved, he makics every poffible nllowance for Mary from the circumitances in which the was placed; and his hiftory will be read with pleafure by candid men of all partics as long as the language in which it is compofed flall continue to be underftood.

In 1769 , Dr Robertion publined, in three volumes quarto, The liftory of the Reign of the Emperor Charles V. with a Viets of the Progrefs of Society in Europe, from the Subverfion of the Roman Enipire to the beginning of the 16 th century. - The vaft and general importance of the period which this hiffory comprifes, together with the reputation which our hiforian had defervedly acquired, co-operated to raifc fuch high expestations in the public, that no work perhaps was cver more impatiently wifhed for, or perufed with greater avidity. The firf volume (uhich is a preliminary one, containing the progrefs of fociety in Europe, as mentioned in the title) is a very valuable part of the work; for it ferves not only as a key to the pages that follow, but may be confidered as a general ${ }_{\text {ss }}$ introduction to the fudy of liffory in that period in

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Rubertion, which the feveral powers of Europe were formed into one great political fyftem, in which each took a favion, wherein it has fince remained (till within a very few years at leaft) with lefs alterarions than could have been expected, afier the fhocks occafioned by fo many internal revolutions, and fo many foreign wars. Of the hiflory itlelf, it may be futicient to obferve, that it is juftly ranked among the capital pieces of hiftorical excellence. There is an elegance of expreffion, a depth of difcernment, and a correctnefs of judgement, which do honour to the hiftorian. The characlers are inimitably penned. They are not contrafted by a ftudied antithefis, but by an oppofition which refults from a very acute and penetrating infight into the real merits of each character, fairly deduced from the feveral circumftances of his conduct exemplified in the hitlory. For this work the author received $45 \geqslant 01$. lierling.

In ${ }^{17799}$, Dr Robertfon publifhed The Hiftory of America, in two volumes quarto. This celebrated nork may be confidered with great propriety as a fequel to the preceding hifory. From the clofe of the $I_{j}$ th century we date the moft fplendid era in the annals of modern times. Difcoveries were then made, the influence which defeended to pofterity ; and events happened that gave a new direction to the fpirit of nations.

To the inhabitants of Eirrope, America was in every refpect a now world. There the face of the earth changed its appearance. The plants and trees and animals were ftrange; and nature feemed no longer the fame. A continent opened that appeared to have recently come from the hands of the Creator, and which thowed lakes, rivers, and mountains, on a grander fcale, and the vegetable kingdom in greater magnificence, than in the other quarters of the globe; but the animal tribes in a ftate of degradation, few in number, degenerated in kind, imperfect, and unfinifhed. The human fpecies in the earlieft fage of its progrefs, vaft and numerous nations in the rudeft form of the favage fate which philofophers have contemplated, and two great empires in the loweft degree of civilization which any records have tranfmitted to our review, prefented to the philofophic eye at this period the molt fruitful fubject of fpeculation that was to be found in the anuals of hiftory.

The difcovery of the New World, moreover, was not only a curions fectacle to the philofopher, but, by the clange which it effected, an interefting fpectacle to the himan race. When Columbus fet fail for unknown lands, he little expected that he was to make a revolution in the fyftem of human affaits, and to form the deftiny of Europe for ages to come. The importance and celebrity therefore of the fubject had attracted the attention of philofophers and hiftorians. Views and fketches of the neis world had been given by able writers, and fplendid portions of the Amcrican ftory had been adomed with all the beauties of elonuence. But, prior to the appearance of Dr Robertion's hitory, no author had befowed the mature and profound inveltigation which fuch a fubject required, or had finified, upon a regular plan, that complete narration and perfect whole which it is the province of the hitforian to tranfmit to polterity. And as the fubject upon which our author entered was grand, his execution was mafterly. The character of his former works was im-
mediately difcerncd in it. They hed been read with Robertikn uncommon admiration. When the Hiftory of Scotland was iirt publithed, and the author altogether utiknown, Lord Chelterfield pronousced it to be equal in cloquence and beauly to the productions of Livy, the pureft and moit claffical of all the Roman hiftorians. His literary reputation was not confired to his own country: the teflimony of Europe was fom added to the voice of Britain. It may be mentioned, indued, as the characterittic quality of our author's manner, that he peffelfed in no common degree that fupported elevation which is fuitable to compofitions of the higher clafs; and, in his Hillory of America, he difplayed that happy union of firength and grace which becomes the majerty of the hiftotic mufe. In the fourth buok of bis firtt volume, which contains a defcription of America when firt dilcovered, and a philofophical inquiry into the manners and policy of its ancient inhabitants, he difplays, moreover, fo much patient inveftigation and found philofophy, abounds in fuch beautiful or interefting defeription, and exhibits fuch variety and copioufnels of elegant writing, that future times will probably refer to it as that part of his works which gives the beft idea of his genius, and is the moft finithed of all his productions.

In $17^{8} 7$ appeared a tranflation of the abbé Clavigero's Hiftory of Mexico; in which work the author threw out various reflections, tending in feveral initances to impeach the credit of Dr Robertfon's Hiftory of America. This attack induced our learned hiftorian to revife his work, and to inquire into the truth of the charges brought againft it by the hitorian of New Spain: and this he appears to have done with a becoming attention to the importance of the facts that are controverted, and to the common interefts of truth. The refult he publifised in 1,88 , under the title of Additions and Corrections to the former Editiuns of Dr Robertion's Hiftory of America.-In many of the difputed paffages, he fully anfwered the abbé Clavigero, and vindicated himfelf: in others he candidly fubmitted to correction, and thus gave additional value to his own work.

The literary labours of Dr Robertion appear to have been termisated in 1791 by the publication of An Hiflorical Díquifition concerning the Knowledge which the Ancients had of India, and the progrefs of Trade with that Country prior to the Difcovery of the Paffage to it by the Cape of Good Hope ; with an Appendix, containing Obfervations on the Civil Pulity, the Laws, and Judicial Proceedings the Arts, the Sciences, and Heligious Intitutions of the Indians, - The perufal of Major Kennel's Memoir, for illuftrating his map of Hindoftan, fuggetied to Dr Robertion the defign of examining more fully than he had done, in his Hiftory of America, into the knowledge which the ancients lad of India, and of confidering what is certain, what is obfcure, and what is fabulous, in their accounts of that remote country. Of his various performances, this is not that of which the defign is the molt extenfive, or the execution the moft elaborate; but in this hiftorical dilquifition we perceive the fame paticat affiduity in collecting his materials, the fame difcernment in arranging them, the fame perficuity of narrative, and the fame power of illuftration, which fo eminently diftinguifh his other writings, and which have long rendered them the

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Rdsertion delight of the Britifh reader at home and an honour to Britifh literature abroad.

A truly ufeful life Dr Robertion clofed on the ith of June 1793, at Grange-Houfe, near Edinburgh, after a lingering illnefs, which be endured with exemplary fortitude and refignation. It may be juftly oblerved of him, that no man lived more refpected, or died more fiucerely lamented. Indefatigable in his literary refearches, and poffefling from nature a found and vigorous underttanding, he acquired a flore of ufeful knowIedge, which afforded ample fcope for the exertion of his extraordinary abilities, and raifed him to the moft diftinguifhed eminence in the republic of letters. As a minitter of the gofpel, he was a faithful paftor, and juttly merited the efteem and veneration of his flock. In a word, he may be pronounced to be one of the moft perfect characters of the age; and his name will be a lalting honour to the ifland that gave him birth. His converfation was cheerful, entertaining, and inftructive ; his manners affable, pleafing, and endearing.

ROBERVALLIAN LiNES, a name given to certain lines ufed for the transformation of figures, fo called from Roberval the inventor of them.

Thefe lines are the boundaries of lines infinitely extended in length, yet equal to other fpaces which are serminated on all fides.

It is obferved by the abbot Gallois, that the method of transforming figures which is explained at the end of Roberval's treatife of Indivifibles, was the fame with that afterwards publifhed by James Gregory, in his Gesmetria Univerfalis, and alfo by Dr Barrow in his Lectiones Geometrica; and that it appears from Toriicelli's letter, that Roberval was the inventor of this method of transforming figures, by means of certain lines, called by Torricelli, for that reafon, Robervallion lines.

The fame author adds, that J. Gregory probably firft Iearned this method at Padua in the year 5668 ; for the method was known in Italy in 1646 , although the book was not publifhed till 1692 .
David Gregory endeavoured to refute this account, in vindication of lis uncle James, whofe anfwer appeared in the Plil. Tranf. for 1694, and the abbot rejoined in the Memoirs of the French Academy for 1703 ; fo that it remaias in a fate of uncertainty to which of the two we are to afcribe the invention.

ROBIGUS avd ROBIGO, a Roman god and goddefs, who joined in the prefervation of corn from blight. Their feftival was kept on the 25 th of $A_{\text {pril. }}$

ROBIN hood. See Hood.
Robin-Redbrcof. See Motacilla, Ornithology Index.

ROBINIA, false acacta; a genus of plants belonging to the diadelphia clals; and in the natural method ranking under the 32 dorder, Papilionaces. See Botasiy Index. There are nine feccies included under this genus, and the moft remarkable are the caragnana and ferox, the leaves of the former of which are conjugated, and compofed of a number of fmall follicles, of an oval figure, and ranged by pairs on one common fock. The flowers are leguminous, and are cluftered on a filament. Every flower confifts of a fmall bell-haped petal, cut into four fegments at the edge, the upper part being rather the widef. The keel is fmall, open, and rounded. The wing; are large, oval, and a little raifed. Within are to flamina united at the bafe, curved towards the Yos. XVIII. Part I.
top, and rounded at the fummit. In the midnt of a Robinia. fheath, formed by the filaments of the famina, the piftil is perceivable, confifting of an oval germen, terminated by a kind of button. This germen becomes afterwards an oblong flattifh curved pod, containing four or five feeds, of a fize and fliape irregular and unequal; yet in both refpects fomewhat refembling a lentil.

This tree grows naturally in the fevere climates of Northern Afia, in a fandy foil mixed with black light earth. It is particularly found on the banks of great rivers, as the Oby, Jenifci, \&c. It is very rarely met with in the inhabited parts of the country, becaufe cattle are very fond of its leaves, and hogs of its roots; and it is fo hardy, that the fevereft winters do not affeet it. Gmelin found it in the neighbourhood of Tobollk, buried under 15 feet of fnow and ice, yet had it not fuffered the leaft damage. Its culture confifs in being planted or fowed in a lightifh fandy foil, which mult on no account have been lately manured. It thrives beft near a river, or on the edge of a brook or fpring; but prefently dies if planted in a marlhy fpot, where the water flagnates. If it is planted on a rich foil, well tilled, it will grow to the height of 20 feet, and in a very fow years will be as big as a common birch tree.

In a very bad foil this tree degenerates, and becomes a mere fhrub: the leaves grow hard, and their fine bright green colour is changed to a dull deep green. The Tungufian Tartars, and the inhabitants of the northern parts of Siberia, are very fond of the fruit of this tree, it being almoft the only fort of pulfe they eat. M. Strahlemberg, author of a well-efteemed defription of Siberia, affures us that this fruit is tolerably pleafant food, and very nourihing. Thele peafe are firt infufed in boiling water, to take off a tertain acrid tafte, and are afterwards dreffed like common peafe or Windfor beans; and being ground into meal, pretty good cakes are made of them. The leaves and tender fhoots of this tree make excellent fodder for feveral forts of cattle. The roots, being fweet and fucculent, are sery well adapted to fattening hogs; and the fruit is greedily eaten by all forts of poultry. After feveral experiments fomewhat fimilar to the methods ufed with anil and indigo, a fine blue colour was procured from its leaves. The fmaller kind of this tree feems ftill better adapted to anfwer this purpofe. The friking elegance of its foliage, joined to the pleafing yellow colour of its beautiful flowers, fhould, one would imagine, bring it into requeft for forming nofegays, or for fpeedily making an elegant hedge.

Befides the qualities above recited, it poffefics the uncommon advantage of growing exceedingly quick, and of being eafily tranfplanted. There are large plantations of it now in Streden, Norway, Laplatid, and Iceland. Linnaws affures us, that, after the Pinus ful. guinis, crroneoully called the cellar trae of Sileria, this tree, of all that are to be found in Siberia, is moft worthy of cultivation.

The robinia ferox is a beautiful hardy fluub, and, on account of its robuft frong prickles, might be i:1troduced into this country as a hedge plant, with much propriely. It refifts the ferereft cold of the climate of St Peterfourgh, and perfe?s its feed in the inperial garden there. It rifes to the height of fix or eight feet; does not fend out fuckers from the root, N
nis

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Retio 3 nor ramble fo much as to be with dificuilly kept within bounds. Its tlowers are yellow, and the gencral colour of the plant a light pleafing greem $A$ figure of it is given in the Flora R.fica by Dr Pallas, who found it in the fouthern diffricts, and fent the fecus to Si l'eterfourgh, where it has profperca in a fituation where few pla's can be madu to live.

ROBlNS, BLRAMms, a mof ingenious mathematician, was born at Buth in $17 \mathrm{c} \%$. His parepts were ! Juakers of low cor dition, atd coniequently were unable to have him much inftrusted in buman learning. But his own propenfity to fcience having procured him a recommendation to Dr Pemlerton at London, by his affifance, while lie attained the fublimer parts of maihematical knowledge, he commenced teacher of the mathematiss. But the butinefs of teaching, which required coufinement, not fuiting lis active dippolition, he gradually declined it, and engaged in butine s that required more exercife. Hence be tried man laburious experiments in gunnery, from the perfuafion that the refiftance of ilie air has a much geetler in luence on trift projectiles than is generaliy im. gir d. It ce allo he was led to confider the mechraic ants th at depend on mathematical principles; as the coni ruction of mills, the building of bridger, the draining of fens, the rendering of rivers navigable, and tie making of herbours. Among other arts, fortification mach engaged his attention; and he met with opportunities of perfecting limfelf by viewing the principal ftrong places of Flandery, in fome tours he made abroad with pertons of dinlincti $n$.

Upon his return from one of thefe excurfions, he found the learned amufed with Dr Berkeley's work, intitled the Anaiy?, in which an attempt was made to explode the method of Auxions. Mr Robins was therefore advifed to clear up this affair by giving a dininct account of Sir Ifaac Newton's doctrincs, in fuch a manner as to obviate all the objection:s that had been made without naming them. Accordingly he puslihed, in ${ }^{17} 35$, A Difcourfc concerning the Nature and Certainty of Sir Ifaac Newton's Method of Fluxions: and Fome exceotions being made to his manner of defending Sir lhac Newton, he afterivards wrote two or three ad. ditional difcourfes. In 1738 he defended the fame great puitofopher againgt an objection contained in a note at the end of a Latin piece, called Miatho, five Cofmotheoria pueriles; and the following year printed Remarks on M. Euler's Treatifc of Motion, on Dr Smith's Syfem of Optics, and on Dr Jurin's Difcourfe of diftiret and inditinet Vifion annexed to Dr Smith's work. In the meanwhile, Mr fiobins did not folely confine himfelf to mathennatical fubjects: for in 1739 lie publifhed three pamphets on political affairs, without his name; when two of them, relating to the convention and negociations with Spain, were fo univerfally elleemed, as to occaîon his being employed in a very honourable poff; for on a committee being appointed to examine into the palt conduct of Sir Robert Walpole, he was chofen their fecretary.

In 1742, Mr Robins publifhed a fmall trentife, intis, ted New Principles of Gunnery, containing the refult of many experiments; when a Difcourfe being publifhed in the Philofophical Tranfactions, in order to invalidate feme of his opinions, he thought proper, in an account he gave of his book in the fame Tranfacions, to take notice
of thofe expriupents; in confequence of which, feveral Ruonins of his Differtations on the Refiftance of the Air were read, and the experiments ealibited before the Royal Socicty, for which he was prefented by that honourable body will a gold medal.

In $174^{8}$ appeared Lord Anfon's Voyage round the World, which, though Mr Walter's name is in the title, has been genealily thought to be the work of Mr Robins. Mir Walter, chaplain on board the Conturion, had brought it duwn to his depariure from Macao for England, when he propuied to print the work by fibicription. It was, howevcr, it is faid, thought proper, that an able judge thould review and correct it, and Mr Robins was appointed; when, upon examination, it was refolved that the whole fhuuld be written by Mr Robins, and that what MIr Walter had done thould only ferve as materials. Hence the intruduction entire, and many difertations in in the body of the work, it is faid, wele compoled by him, withont receiving the leat affitance from Nir Walter's manufcript, which chicfly iclated to the wind and the weather, the currents, courles, bearing, dilarices, the qualities of the ground on which they anchored, and fuch particulars as gererally fill up a failor's account. No production of this kind ever met with a more favourable reception; firur large impreflions were fold within a twelvemonth ; and it has been traulated into moft of the languages of Europe. The fifth edition, printed at London in ${ }^{1749}$, was revied and corrected by Mr Ro bins himfulf. it appears, however, from the corrigenua and addenda to the Ill volume of the Biographia Briannica, printed in the beginning of the fourth volume of that work, that Mr Robins was only confulted with refpect to the difpofition of the drawings, and that he t.d left England before the book was printed. Whe:her this be the far, as it is aferted to be by the widow of Mr Walter, it is not for us to determine.

It is cerain, hewever, that Mr ! Robins acquired the fame, and he was foon afier defired to compore a a apulogy for the unfortunate affait at Prellonpans in Scetland, which was prefixed as a preface to The Report of the Proceedings of the Board of General Oif:cers on their Examination into the conduct of LicutemantGeneral Sir John.Cope; and this preface was eitemed a mafterpiece in its kird. He afterwarc's, through it. intereft of Lord Arion, contributed to the improvements made in the Royal Obfervatory at Greenwich. Having thus eftablifhed his requation, he was cffer, 1 the choice of two confiderable employments; cither to go to Paris as one of the commiffaries for adjunting the limits of Acadia, or to be enginecr-gencral to thic Eut India company. He chofe the latter, and anived in the Eoft Indies in 1750 ; lut the climate not agreeing with his corfitution, he died there the year following.

RObinson, the most rev. Sir Richard, archhifhap of Armagh and Lord lioke'y, was immeciiately defcended from the liobinfons of Rokeby in the north riding of the courty of York, and was born in 1,509 . He was educated at Weftminfter fchool, from whence he was elected to Chriit-Church, Osford, in 17-6. After continuing his fudics there the utual time, Doctor Blach burne, archbinhop of Y"ork, appuinted him his chaplain, and collated him firf to the rctory of Elton, in the eaft riding of Yorkinire, ard nicse to the prebend of Grindal, in the cathedial of York. In 17;

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Rumion, he attended the Juke of Dorfet, lord-iientenant of Ireland, to that kingdom, as his firlt chaplain, and the fame year was promoted to the bithopric of Killala. A family connection with the carl of Holderneffe, who was fecretary of tate that year, with the earl of Sandwich and other noblemen related to him, opened the fairelt propects of attaining to the firlt dignity in the Irifh church. Accordingly in 1759 he was tranflated to the united fees of Leighlin and Feras, and in 1761 to Kildare. The dake of Northumberland being appointed to the lieutenancy of Ireland in 1765 , he was advanced to the primacy of Armagh, made lord-almoner, and vicechancellor of the univerfity of Dublin. When Lord Harcourt was lord-lieutenant of Ireland in 1777 , the king was pleafed by privy-feal at St James's, February 6 th, and by patent at Dublin the 26th of the fame month, to create him Baron Rokeby of Armagh, ivith remainder to Matihew Robinlon of Weft Layton, Ef; and in $i_{7} 83$ he was appointed prelate to the molt illuttrious order of St Patrick. On the death of the duke of Rutland lord-lieutenant of Ireland in 1787, he was nominated one of the lords.julfices of that kingdom. Sir Wil1ion Robinfor, his brother, dying iis 1785 , the primate fucceeded to the title of baronet, and is the furvivor in the direct male line of the Robinfons of Rokeby, being the $8: h$ in defcent from William of Kendal. His grace died at Clifton near Briftol in the end of October 1794.

No primate ever fat in the fee of Armagh who watched more carefully over the interelt of the church of Ircland, as the ftatute-book evinces. The act of the irth and 1 2th of his prelent majelly, which fecures to bifhops and ecclefat?ical perfons repayment by their fucceffors of erpenditures in purchafing glebes and houfes, or building new houfes, originated from this excellent man, and mutt ever endear lis name to the clergy. The other acts for repairing churches, and facilitating the recovery of ecclefatical dues, were among the nany happy exertions of the primate.

But it was at Armagh, the ancient feat of the primacy, that he difplayed a princely munificence. A very elegant palace, 90 feet by 60 , and 40 high, adoras that tow: ; it is light and pleafing, without the addition of wings or leffer parts; which too frequently wanting a fuffiient uniformity with the body of the edifice, are unconnested with it in cfrect, and divide the attention. Large and ample offices are conveniently placed behind a plantation at a fmall difance. Around the palace is a large lawn, which fpreads on every fide over the hills, ikirted by young plantations, in onc of which is a terrace, which commands a moft beautiful view of cultivated hill and dale ; this vier from the palace is much improved hy the barracks, the fchool, and a new church at a diftance ; all which are fo piaced as to be exceedingly ornamental to the whole country.

The barracks were erected under the primate's direction, and form a large and handfome edifice. 'The fchool is a building of confiderable extent, and admirably adapted for the parpole ; a more beautiful or betier contrived one is nowhere to be feen; there are apartments for a mafter, a fchool-room 56 feet by 28 , a large dining room and fpacious airy dormitorics, with every other neceff:ry, and a fpacious play-ground walled in; the whole forming a handfome front: and attention being paid to the refidence of the maller fthe falary is 400 l . a-year), the fchool flourifies, and muft
prove one of the greatelt advantages to the: Af: R $\underbrace{R}$ This editice was buite cm irely at the prianat i operce. The church is erected of white flone, and havitr, a ta! fpire, makes a vesy agreeable object, in a coustry where churches and fpires do not abound. The promaice buit three other churches, and made confiderable reparations to the cathedral ; be was ailo the means of erecting a public infirmary, contributing amply to it himle.f: he likewile contrucled a public library at his own col?, endowed it, and gave it a large collection of books; the room is 45 feet by 25 , and 20 high, with a gallery and apartments for the librarian. The town lie ornamented with a market-houle and thambles, and was the direct means, by giving leafes upon that condition, of almoft new-building the whole place. He found it a nelt of mud cabins, and he left it a well-built city of ftone and flate. Theie are noble and fpirited works, in which the primate expended not lefs than $30,0 c o l$. Had this fum been laid out in improving a faternal ettate, even then they would be delerving great praile; but it is not for his potterity but the puolic good that his grace was fo munificent. A medal was itruck by the ingenious William Moffop of Dublin, which has on one fide the head of the primate, infcribed " Richatd Robinfon, Baron Rokeby, Lord Primate of all Ireland." And on the reverfe, the fouth front of the obfervatory at Armagh, erected by his grace, with this admirabic motto, "The Heavens declare the glory of God." mDCCLXXXIN.

Fobsnson, Robert, a diffenting minitter of confiderable note, was boin on the 81h of OZtober 1735 at SwalTham in Norfolk. His father died when he was young; and his maternal grandfather Robert Wilkin, of Milden-hall, Suffolk, gent. who had ever been diflatisfied with his daughter's marriage, deprived him of his maternal inheritance, cutting him off with half-aguinea. His uncle, however, who was a fubftanti:l farmer, in fome meafure fupplied their lofs. He took Mr liobinfon home, and placed him under the !ev. Jofeph Brett, at Scarning fchool in Norfolk, with a view to the miniftry of the church of England; where he had for one of his fchool-fellows the lord chancellor Thurlow. When about the age of 15 or 16 , he imbibed the notions of George Whitfeld ; on which account he was difcarded by lis uncle, and again expoled to poverty and want. He firlt directed his thoughts towards the miniftry in the year 1-54, and commenced preacher in the following year at the age of $20 ;$ preaching his firft fermon to a congregation of poor people at Milden-hall. He continued for a year or two as ore of Mr Whitfield's preachers, and during that yeviod he married. In the year 175 s , however, he determined to feparate from the Methodits; after which he fettled at Norwich with a fraall congreyation formed chiefly of his methodiflic friends, being it that time an Independent. In the year 1759 lie was invited to Cambridge, and for two years preached on trial to a congregation confining of no more than 34 people, and fo poor.that they could only raife 31.6 s, a quarter for his fubfittence. In June 1761 he fettled as their paftor, and was ordained in the ufual manner; at which time we are told he exercifed the office of a barber. In 1774 , his congreyation had fo rouch increafed as to confift of 1020 fouls, including children and fervants.

In Cambridge Mr Robinfon's talents foon attracted N 2
notice,

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R. notice, and he quickly fet up a Sunday evening leefure, which was well attended. His preaching was altogenier without notes; a mechod in which he was peculiarly happy : not by truiting to his memory entirely, nor by working himfelf up to a degree of warmth and paffion, to which the preachers among whom he firft appeared commonly owe their ready utterance; but by thoroughly ftudying and making himfelf perfectly mafter of his fobject, and a certain faculty of expreffion which is never at a lofs for fuitable and proper words. In fhort, his manner was admirably adapted to enlighten the underftanding, and to affect and reform the heart. He had fuch a plainnefs of fpeech, fuch an eafy and apparent method in dividing a difccurfe, and fuch a familiar way of reafoning, as difcovered an heart filled with the tenderelt concern for the meanelt of his hearers; and yet there was a decency, propriety, and jultnefs, that the moft judicious could not but approve. Several gentlemen of the univerfity, eminent for character and abilities, we are told, svere his conftant hearers.

The circumftances which loft him his uncle's patronage paved the way for the future events of his life. The incident which made him difcard the common fentiments on the fubject of baptifm, at once marked the turn of his mind, and thows what apparently flight caufes frequently determine the lot and ufefulnefs of our lives. He was invited to the baptifm of a child; the miniter who was to perform the fervice keeping the company in long expectation of his appearance, fome one fuggefted, that fuppofing the child were not baptized at all, he faw not how it could affect his happinefs. Though the converfation was not purfued, the hint ftruck Mr Robinfon's mind; and he immediately determined to read the New Teltament with this particular view, to cxamine what it faid concerning the baptifm of infants. He accordingly began with the Goipel of Matthew ; and, in fucceffion, perufed the hiftorical and epitolary books; in expectation that he fhould find in every following part what he had not met with in the preceding parts of the facred volume; namely, paliages recommending and urging this rite. But oblerving, on the whole, a total filence about it, he thought it his duty to relinquifh the practice, as without foundation in the rule of our faith; which appeared to him to fpeak only of the baptifm of believers.

This change of his fentiments was more unfavourable than the former alterations in his religious judgement to his wordly views; and having married very early in life from pure affection, he was involved in great difficulties for near 12 years after his fettlement in Cambridge; as, in that courfe of time, his family became numerous, and the fupport of an aged mother, as well as of a wife and ten children, depended upon hin. But unexpected fupplies, from quarters of which he was ignorant, frequently relieved his neceffities, and confirpeed his truft in Providence: yet the fituation of his family mult, it is eafy to conccive, have much affectod his unind, For he appears to have poficfled great tenderncls and fenfibility, and to have regarded with peculiar endearment his domeftic connections.

It roay be feckoned a circumilance worthy of mention, that the Sphere of Mr Rabinfon's miniftry was the farue in which his great grandfather Mr Shelly, of Jefus College, and vicar of All-Saints, had, with others,
diffufed the: principles of the Puritans, about the begin- Robinfom ning of the $17^{t h}$ century. The reputation of the Difienters in the univerfity and neighbourbood had for almost a century been finking into contempt, when Mr KobinEon fetted with the baptist church at Stone- Iard. His abilities ald afluduty, however, raifed their reputation. The place in which his people aflembled, which was at firt a barn, afterwards a flable and granary, and then a meeting-houfe, but fill a damp, dath, and ruinous place, foon became too fmall for the audience; and feveral of the new auditors being men of fortune, they purchafed the fite, and erected at their own expence a new houfe in the year 1764.

His labours as a preacher were not limited to the town of Cambridge ; but foon aiter his coming there, he fet up feveral lectures in the adjacent villages. His lectures were either almual or occafional, or ftated on fixed days. The ufual time was half an hour after fix in the evening; and fometimes at five in the morning; and now and then in the fummer at two in the afternoon, for the fake of thofe who came from a diftance.

He died on the gth of June 1790, at the houfe of William Ruffel, Efq. of Showell Green near Birmingham. He had laboured under an alarming diforder for tome time before; but on the Sunday preceding his death he preached a charity feimon. On Monday he was feized with a fit; on Tuefday he recovered and went to bed tolerably well, but was found dead next morning.

The abilities of Mr Robinfon were very confiderable, as appears from his numerous works; and he poffefled the quality of expreffing his thoughts in an eafy and a forcible manner. But he appears to have been of an unfteady temper, and in our opinion, acquires but little credit either from the frequency with which he changed his religious creed (for we have reafon to believe he died a Socinian), or from the foolith and undeferved acrimony with which he treated the church of England. His Plan of Lectures on the Principles of Nonconformity, for the Inftruction of Catechumens, is a piece of the moft unjuif and illiberal abufe that we have ever feen, and would have difgracéd the moft high-tlying Pu . ritan of the laft century.

Mr Robinfon's largelt work, the Hifory of Baptifm and of the Baptifts, was publifhed fince his death, and is written in the fame ftyle and with the fame confidence as his other works. Jet, as we have heard it remarked by a learned and liberal profeffor of theology in the church which he oppofed, it is not a little remarkable that there is in it no argument or fact agamft infant baptifm which was not anfwered by Dr W'all nearly 100 years ago, of whole arguments Mr Robinfon however takes no notice.

ROBORANTS, in Pharmacy, medicines which ftrengthen the parts, and give new vigour to the conilitution.

ROCHEFORT, a handfome and confiderable towrs of France in the department of Lower Charente. It was confructed by Louis XIV. and is built in the midft of marfles exprefsly drained for that purpofe ; and time evinced the utility of the project, for as a port it foon became as neceffary and important to the crown of France as Breft or Toulon. It has a department of the marinc, and has large magazines of naval ftores. There is alfo one of the fineft halls of arms in the kingdoin, and a great many workmen employed in making them.s

## § 0 \& <br> [ 101]

Aorherost there are alio forges for anchors, and work-houfes for $\|$ thip-carpenters, who are employed in every thing that Rochefou:- relates to the fitting out of dips that come withln the exult
toine. Beholding one day a portrait of this lady, he Rechefoue wrote underneath it thefe two lines from the tragedy of cault Alcyonée :

Rocheile.
"Pour meriter for cour", pour plaive à fus beauv yeur,
"Jonifail la gucric aux rois, je "aurois foù aux dieux:"
Which may be thus rendered in Englifh:
" To gain her heart, and pleafe her fparkling eyes,
"I've war'd with kings, and would have brav'd the ikies."
It is reported, that after his rupture with Mradame Longueville, he parodied the above verfes thus:
"Pour ce caur inconflant, qu'erfin je conncis mi' u:",
"Je fais la guerre aux rois, $j$ 'en ai perdu les yeus.".
After the civil wars were ended, he thought of nothing but enjoying the calm pleafures of friendithip and literature. His houfe became the rendezvous of every perion of genius in Paris and Verfailles. Racine, Boileau, Savigne, and La Fayette, found in his converfation charms which they fought for in vain elfewherc. He was not, however, with all his elegance and genius, a member of the Trench Academy. The neceflity of making a public fpeech on the day of his reception was the only caufe that he did not claim admittance. This nobleman, with all the courage be had diflaycd upon various critical occafions, and with his fuperiority of biris and underflanding over the common run of men, dia not think himfelf capable of facing an audience, to utter only four lines in public, without being out of countenance. He died at Paris in 1680, aged 68, leaving behind him a character which has been varioully drawn by thofe who during his life were proud of his friendhiip. That he was well acquainted with human nature is certain; and his merit in that refpect was fully admitted by Swift, who was himfelf not eafly impoled upon by the artificial difguifcs of the hypocrite.
ROCHELLE, a celebrated city of France, in the department of Lower Charente, with a very commodious and fafe harbour, which, though it does not admit veffels of any confiderable burden, is yet well calculated for trade. "It may be divided (fays Mr Wraxal) into three parts; the bafon, which is the innermoft of thefe, is only a quarter of a mile in circumference; and at the entrance are two very noble Gothic towers, called the Tour de St Nicholas, and the Tour de la Chaine, They are now in a itate of decay, but were anciently defigned to protect the town and harbour. Without thefe towers is the $A$ yant Port, extending more than a league, and bounded by two points of land to the north and fouth. Beyond all is the road where the largeit flips ufually anchor, protected from the fouth welt winds by the illands of Re, Olero", and Aix." The celebrated mound erected by Richlien extends from fide to fide acrofs the whole harbour, nearly an Englith mile in length, and when the fea rctires is ftill visble. "I walked out upon it (fays Mr Wraxal) above 300 feet. Its breadh is at this time more than 150 feet, and it widens continually towards the bafe. No effort of are or power can poffibly imprefs the mind with io vaft and fublime an idea of the genius of Richlicu, as does this bulwark againt the fea. While I food upon it, in the t middle of the port, between the waves which rollet or it eithicr fide, and contemplated its extent and Arengit?, I was almof inclined to luppole this aftonithing work to

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Rochelle be fuperior to human porver, and the production rather ${ }^{11}$. of a deity than of a mortal. A fimall opening of about Rocheter. 200 feet was left by Pompey Targon, the architeet who confructed it, to give entrance to veffels, and thut up by chains fixed acrofs it. A tower was likewife erected at each end, no remains of which are now to be feen. Neither the duke of Buckingham, nor the earl of Lindley, who were fucceffively fent from England to the aid of the befieged by Charles the Firf, dared to attack this formidable barrier: they retired, and left Rochelle to its fate. In all probability, a thoufand years, aided by ftorms and all the fury of the fea, will make little or no impreffion on this mound, which is defigned to endure as long as the fame of the cardinal, its author."

Before the revolution, Rochelle was a bifhop's fee, and contained a college of humanities, an academy, a fchool for medicine, anatomy, and botany, and a mint. It cannot lay claim to any remote antiquity, being merely a little collection of houfes on the fhore, inhabited by fifhermen, when William IX. laft count of Poictou, rendered himfelf mafter of it in 1139 . From this prince it defcended to his only daughter Eleanor, afterwards queen of Henry II. of England; and her charter incorporating the town is flill preferved in the regifters of the city. In the year 1540, Rochclle was the grand afylum of the Proteftants; and the mainacre at Paris was foon followed by the fiege of Rochelle, which began in November 1572, and was railed in 3 une 1573 ; but in 1628 , afler a moft obffinate refiftance, and a fiege of 13 months, it furrendered to the mercy of Louis XIII. At the beginning of the firt fiege, the number of inhabitents in the city amounted to $7^{2,000}$; in the fecond they diminifhed to 28,000 ; and they were, when Mr Wraxal was there, between 17 and 18,000 , of which fcarce 2000 were Huguenots. The houfes of this cily are fine, and fupported with piazzas, under which perfons may walk in all weathers; and the ftrects in general are as ftraight as a line. There are feveral handfome churches, and other ftructures, befides a remarkable pump in the fquare of Dauphiny, which throws out the water through feveral pipes. There are no remains of the old fortifications, except on the fide of the harbour, where there are bu!warl:s and frong towess to defend the entrance. The new fortifications are in the manner of Vauban. Before Canada was eded to England, and New Orleans to Spain, the trade of Rechelle was very lucrative. It revived about the year 1-73, and, befide that to the coatt of Guinea and the Eatl Indies, the inhabitants carried on a confiderable tride in wincs, trandy, falt, paper, linen cloth, and ferge. It is feated on the ocean, in IV. Long. 1. 4 N. L-t. $\boldsymbol{f}^{6}$. 9.

ROCHESTET, a city of Kent, in England, is fituated on the Medway, feven miles and a half north of Maidfone, and 35 from London. It appears to have been one of the lioman flations, from the bricks in the walls, as well as the Roman coins that have been found ahout it." It has three parifh chuches built with ftone and filits, befides the cathedtal, which is bit a mean Aructure. This li tle city, which was made a biflop's fee by Kira Fhelbert, anno 6 it has neet with maty miffortu es In ( -6, , it was facked by Eldred kirg of Nirrin ; in 839 and 895 , befieged thy the Danes, bat rcfoucd ty King Alfred. About 122 years
after, it was befieg-i by King E behed, and fu.w. 1 to Row. nere pay 1001. Anno 999 it wis taken and pluncuercd by the Dines. Anno 1088 it was befieged and tikin by William Rufus. In King John's time it wis taken from the Barons, after three months figge; and the very next year, 1 iz .1256 , its cafle, fuunced by Wiilliam the Conquerer, was itormed and tahen by feveral of the Barons, urder the French King's fon. In the reign of Henry III. it was bclieged by Simon Montford, who burnt its then wooden bridge and tower, and fpoiled the church and priory, and then marched off. This city has alfo been feveral times deftroyed by fire, viz. in 1130 , on June 3 . in 1137 , and in 1177 ; after which it is faid to have continued defolate till 1225 , when it was repaired, ditched, and walled round. In the Saxon heptarchy there were three mints in Rochefter, two for the king and one for the bilhop. In 1281, its old wooden bridge was carried off by the ice, in a fudden thaw after a froft which had made the Medway paffable on foot. Another was built in the reign of Fichard II. but pulled dorn again, on the rumour of an invafion from France. It was afterwards reflored, but fo often fubject to expenfive repairs, by reafon of the rapid courfe of the river under it, as well as the great breadth and depth of it, that in the reign of Edward III. it was refolved to build a new bridge of flone; and the fame was begun, and in a manner completed, at the expence of Sir John Cobham and Sir Robert Knolles, Edward III.'s generals, out of the fpoils they had taken in France. It has 21 arches. The town is governce by a mayor, recorder, 12 aldermen, 12 common-councilmen, a torn-clerk, three ferjeants at mace, and a water-bailiff. To its cathedral belong a dean and fix prebendaries. Gundulph's tower Itands on the north fide of the cathedral, and is fuppofed to have been built by the bifhop, as a place of fecurity for the treafures and archives of that clurch and fee. Some fuppofe it to bave been intended for a bell torver, and others for an ecclefiaftical prifon; but whatever might be its dellination, its machicolations, its loop-hole windows, and the thicknef of its walls, thow that frength and defence were confideied as neceflaryThis tower was 60 feet high, but fome part has lately fallen down ; the walls are fix feet thick, and cont.. in within them an area of 20 feet fquare: it was divided into five floors or ftories of unequal height, and had a communication with the upper pat of the charch, by means of an arch or bridge, the theps of wlich are fill vifible. It is fuppofed to have been crected after the eathedral was built. For the maintentence of its bridge, certain lands are tied down by parliament, to which it has fent members from the frif. The town-l nufe, built in the year $16 S_{7}$, for the courts, aflizes, and f.f. fions, and the charity-fchool, are two of the beft public buildings here.- A mathematic.! fohool was four.ded here, and an alms-houfe for lodging fix. poor travellers every night, an d allowing them 4 d . in the morning when they depart, except perfons contagioully difeafed, rogues, and prodors. In the fummer here are alwn:s fix or eight lid sers, who are admit'ed by tickets from the mayor. The Roman Thaling ffreet runs throuch this town $f$ - n Shoote: Hill to Dover. The mayor a. ' ci izons bold what is called an admiralty court nice a-vear for reyulating the oyfler fiflesv in the cre 1.5 , me branches of the Medsay that are within their juriftic-

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Rorkfer tion, and for preleca, in: the cable-hange:s, as they are called, who dredse and firh fr oyflers withote loeing fiee, by having lerved feven ycars apprenticell ip to a fitherraan vio is free of the vifherg. Eviry licenfed dredger pays $6: 8 \mathrm{~d}$. a year to the fity port of the courts, and the fifhery is now in a fourithing way. Part of the callle is kept in repair, and is uled as a masazine, where a party of foldiers do conftant duty. The bridge was repaired in 1744 , and pallifadocd withnew iron rails. Rochefter contaiis ajout 700 houles, and 2000 irkabitants. It confifs of caly one principal freet, which is wide, and paved with flints. The houfes are generally well built with brick, and izhabited by tracefmen and iunkeepers. It has allo for:r narrow freets; but no fort of manufactory is carried on here. Siroud is at the weit end of this place, and Chatham at the ealt. It is 27 miles north weli by weft of Conterbury, and 30 fou: heeaft by eaft of London. Long. ©. 36. L. Lat. $5^{1}$. 23. N.

Ruchister, Farl of. See Whimot.
HOCK, a layse mi..i, of fone. Siee Geology.
Fiock, a fp-ics of Vulture. Sce Ornimhology $I_{n} \mathcal{L}_{1} x$.

Rock Bafons are cavities or artificial bafons of different fizes, from fix feet to a few inches diameter, cut in the furlace of the rocks for the purpofe, as is fuppofed, of collecting the dew and rain pure as it deicended from the heavens, for the ule of ablutions and purifications, prefcribed in the druidical religion; thefe, efpecially the dow, being deemed the pureft of all fluids. There are two forts of thefe bafors, one with lips or commanications between the different bafons, the other fimple cavities. The lips as low as the bottom of the bafons, which are horizontal, and communicate with one fomewhat lower, fo contrived that the contents fell by a gradual dcfeent through a fucceffion of balons cither to the ground, or into a veffel fet to receive it. The bafons without lips might be intended for refervoirs to preferve the rain or dew in its original purity without toucling any other veffel, and was perhans ufed for the druid to drink, or wafh his hands, previous to o!liciating at any ligh ceremony, or elfe to mix with their miletoe.

Some of thefe bafons are fo formed as to receive the bead and part of the human body; one of this kind is found on a rock called King Arthur's Bed, in the parifh of North Hall in Cornwall, where are alfo others, called by the country peonle $A$ :thur's troughs, in which they fay he uled to feed his dogs.

Rock-Crysta!', in Natural Mifory, otherwife called Prig.crufal, a name given to quartz or filiceous ftones, when pure and regulariy cryfallized. See Mineralogy IrCi:

## Rock Salt. See Salt, Georogr.

Rock Oi\%. See Petroletiri, Mineralogy Index. Rock Fi/h. Sec Gobies, Ichthyology Index.
ROCKET, an artificial fire-work, confifting of a sylindrical cale of paper, flled with a compofition of curtain combulible ingredients; which, being tied to a tlick, mounts into the air, and then burlts. See Pyrotrensy.

Theory of the Flight of Sky-Rockers. Mariotte takes the rife of rockets to be owing to the impulfe or refiffance of the air againtt $t$ ': a flame. Dr Defagulicrs accosats for it otherwife.

Conceive the rocket to have no vent at the choak, and to be fet on fire in the corical bore; the confequence will be, either that the rocket would burl in the weakett place, or, if all its parts were cutally flrong,

Rocket II. Roik ${ }^{3}$ hom. and able to faftain the impulie of the tlame, the rocket wuald burn out immoveable. Now, as the forcc of the flame is equable, fuppole its action downwards, or that npwards, fufficient to lift is pounds. As there forces are equal, but their directions contrary, they will deliroy each other's action.

Imagine ther the rocket opened at the choak; by this means the action of the fame downwards is take:1 away, and there remains a force equal to 40 pounds acting upwardi, to carry up the rockct, and the flick it is tied to. Accordingly, we find that if the compofition of the rocket be very weak, fo as not to give an inpulle greater than the weight of the rocket and tick, it does not ife at all; or if the compufition be llow, fo that a finall pait of it only kiadles at firt, the rocket will not rife.

The tick ferves to keep it perpendicular; for if the rocket fhould begin to ftumble, moving round a point in the choak, as being the common centre of gravity of rocket and Itick, there would be fo muchtriction againit the air by the flick between the centre and the puint, and the point rould beat againft the air with fo much velocity, that the friction of the medium uould reftore it to its perpendicularity.

When the compofition is burnt out, and the impulfe upwards has ceafed, the common centre of grivity is brought lower towards the middle of the fick; by which means the velocity of the point of the ftick is decreafed, and that of the point of the rocket increafed; fo that the whole will tumble down, with the rocketend foremoft.

All the while the rocket burns, the common centre of gravity is flifting and getting dosnwards, and till the fafier and the lower as the flick is the lighter, $\delta_{5}$ that it fometimes begins to tumble before it be burut out; but when the flick is a little too heav:, the weight of the rocket bearing a lefs proportion to that , f the tiick, the common centre of gravity will not get i. low but that the rocket will tife ftraight, though not Io faff.

Rockyt. See Brassica, Botany I:dex.
ROCKINGHAMI, a town in Northamptonlhire, in England, 87 miles from London, fands on the river Welland. It has a charity-fchool, a market on Thurf. day, and a fair on Sept. 3 for five days. Its foreft was reckoned one of the largeft and richelt of the lingdom, in which William the Conqueror luilt a cafle; it extended, in the time of the ancient Pritains, almoft from the Welland to the Nen, and was noted formerly for iron-works, great quantities of flags, i.e. the rcfuse of the iron-ore, being met with in the adjacent fields. It extended, according to a furvey in 1641 , near $1+$ miles in length, from the weft and of Middleton- ${ }^{3}$, pods to the town of Mansford, and five miles in breadth, from Brigीock to the Welland; but is now difincmbered into parcels, by the interpofition of ficlds ar.d towns, ar.d i) divided into thece bailivichs. In feveral of icswoods a great quantity of charcoal is made of the tops of trees, of which many waggon-loads are fent evety jear to Petertorough. 'There is a $f_{3}$;a ious plain in it called Porkinglamflire, which is a cormmon to the for: 1.1 :ns

## If O D [ 104 1 K O D

Rocking of Cottingham, Rockingham, Corby, and Gretton. II. King William Rufus called a council here of the great men of the kingdom. W. Long. 0. 46. N. Lat. $5^{2}$. 32.

## ROCKING stones. See Rocking-Stones.

 ROCKOMBOLE. See Allium.ROD, a land meafure of 16 feet and a half; the fame with perch and pole.

## Black ROD. See UshER of the Black Rod.

Fi/hing ROD, a long taper rod or wand, to which the line is faitened for angling. See FISHIVGG-Rod.
rodney, George Bridges, Lord Rodney, was born in the year 1718. Of the place of his birth and the rank of his anceftors we have not been able to procure any well authenticated account. His father was a naval officer; and commanding, at the time of his fon's birth, the yacht in which the king, attended by the duke of Chandois, was paffing to or from Hanover, he afked and obtained leave to have the honour of calling his infant fon George Bridges. The royal and noble godfathers advifed Captain Rodney to educate his boy for his own profeffion, promifing, as we have been told, to promote him as rapidly as the merit he fhould difplay and the regulations of the navy would permit.

Of young Rodney's early exertions in the fervice of his country, nothing, however, is known to the writer of this abitract, nor, indeed, any thing of fufficient importance to be inferted in articles fo circumfcribed as all our biographical fketches mult be, till 1751, when we find him, in the rank of a commodore, fent out to make accurate difcoveries refpecting an ifland which was fuppofed to lie about $50^{\circ}$ N. L. and about 300 leagues IV. of England: but he returned without having feen any fuch ifland as that which he was appointed to furvey. In the war which foon followed this voyage of difcovery, he was promoted to the rank of a rear-admiral, and was employed to bombard Havre-deGrace ; which in 1759 and 1760 he confiderably damaged, together with fome fhipping. In 176r he was fent on an expedition againft Martinico, which was reduced in the beginning of the year 1762 , and about the fame time St Lucia furrendered to Captain Harvey. Both thefe iflands were reftored to the French at the peace of ${ }_{176}$.

In reward for his fervices, he was created a knight of the Bath; but being inattentive, as many feamen are, to the rules of economy, his circuinftances became fo embarraffed that he was obliged to fly from his country, with very flight hopes of ever being able to return. He was in France when the ill-advifed policy of that court made them take a decided part with America againft Great Britain; and it is faid that fome men in power, no ftrangers to the delperate flate of Sir George's affairs, offered him a high command in the French navy, if he would carry arms againft lis own country. This offer he rejected with becoming indignation. Soon after this gallant behaviour, the duke de Chartres, afterwards the infamous Orleans, told Sir George that he was to have a command in the ficet which was to he oppofed to that under the command of his countryman Mr Keppel ; and with an infulting air afked him what he thonght would be the confequence of their meeting? "That my countryman will carry your Highnefs with him to learn Englifh," was the high-fpirited reply,-

When the divifions, which the mutual recriminations of Admiral Keppel and Sir Hugh Pallifer excited in the Britifi navy, made it difficult for the miniltry to procure experienced, and at the fame time popular, commanders for their fleets, Lord Sandwich wrote to Sir George Bridges Rodney, offering him a principal command; but the difficulty was for the veteran to find money to pay his accounts in France, fo that he might be permitted to leave that kingdom. The money, it has been repeatedly affirmed, was advanced to him by the courtiers whofe offer he had before indignantly rejected. He arrived, therefore in England, and was again employed in the fervice of his country. His firlt exploit after his appointment was in January 1780 , when he took 19 Spanifh tranfports bound to Cadiz from Bilboa; together with a 64 gun fhip and 5 frigates, their convoy. On the 16 th of the fame month he fell in with the Spanifh fleet, confifting of 11 fail of the line, under the command of Don Juan de Langara; of which one was blown up during the engagement, five were taken and carried into Gibraltar, among which was the admiral's fhip, and the reft were much fhattered. In April the fame year, he fell in with the French fleet, under the command of Admiral Guichen, at Martinico, whom he obliged to fight, and whom he completely beat ; though from the fliattered fate of his own fleet, and the unwillingnefs of the enemy to rifk another action, he took none of their fhips. The fuccefsful efforts of our gallant admiral during the year 1780 were generally applauded through the nation. He received the thanks of both Houfes of Parliament, and addreffes of thanks from various parts of Great Britain, and the illands to which his victories were more particularly ferviceable. In December the fame year, he made an attempt, together with General Vaughan, on St Vincent's, but failed. In ${ }^{1} 7^{81}$, he continued his exertions, with much fuccefs, in defending the Wert India iflands; and, along with the above named general, he conquered St Euffatius; on which occafion his conduct to the inhabitants has been much, though perhaps unjuftly, cenfured. The ifland was certainly a neft of contraband traders.

On the 12th of April 1782, he came to a clofe adion with the Fiench fleet under Count de Graffe; during which he funk one fhip and took five, of which the admiral's fhip, the Ville de Paris, was one. The following year brought peace; but, as a reward for his numerous fervices, he had a grant of 20001 . a-year for himfelf and his two fucceffors. He had long before been created a baronet, was rear-admiral of Great Britain, and at length was juftly promoted to the peerage, by the title of Baron Rodncy of Stoke, Somerfethire, and made vice-admiral of Great Britain. He was at one time alfo governor of Greenwich Hofpital.

Lord Rodney had been twice married; firft to the fifter of the earl of Northampton, and fecondly to the daughter of John Clies, Efq; with whom he did not refide for feveral years before his death, which happened on the 2.th of May 1792. He was fucceeded in title and eftates by his fon George, who married in 1781 Martha, daughter of the light Hon. Alderman Harley, by whom he has ifiue.

Of the private life of Lord Rodney we know but little. His attention to the wants of the feamen, and the warrant officers ferving under him, indicated that lumanity whicla is always allied to true courage. He

## RO

Redney, has often, from the number of diflies which his rank Ree. brought to his table, fclected fomething very plain for himfelf, and fent the reft to the midfhipmen's niefs.His public tranfactions will tranfmit his name with honour to pofterity ; his bravery tras unqueflionable, and his fuccefs has been feldom equalled. It has, indeed, been very generally faid, that his fkill in naval tactics was not great, and that he was indebted to the fuperior abilities of Capt. Young and Sir Charles Douglas for the manourres by which he was fo fucceffful againit Langara and De Graffe. But, fuppofing this to be true, it detracts not from his merit. A weak or foolifh commander could not always make choice of the ableft officers for his fir:t captains, nor would fuch a man be guided by their advice.

Whatever was Lord Rodney's fkill in the fcience of naval war, of however much he may have been beholden to the counfels of others, he certainly pofeffed himfelf the diftinguilhed merit of indefatigable exertion ; for he never omitted any thing within the 'compafs of his po:ser to bring the enemy to action. He therefore urqueftionably deferves the refpect and the gratitude of his country. Iis the year 1783 the Houfe of Affembly in Jamaica voted 1003 . towards erecting a marble ftatue to him, as a mark of their gratitude and veneration for his gallant fervices, fo timely and glorioufly performed for the falvation of that illand in particular, as well as the whole of the Britilh Weft India iflands and taade in general. A pillar was alfo eretted to the memory of this gallant oficer, upoa the Brythen in Suropfhire.

Bit whatever were the talents of Lord Rodney as a haval commander, there is a more felendid part of his charafter which it would be improper to omit. Before his fuccefe againt the Spanifh admiral Don Langara, the Englin prifoners in Spain were treated with the greateft inlumanity, and it required more than ordinary fifrength of confltution to exift for any length of time in a Spanith prion. When the Spanith adminal fell into the hands of Lord Rodrey, both himfilf, his officers, and men, expected to mee" with the Came treatmeat they had been accultomed to give; but they were aftonifhed to find in Lord Rodney a man who felt for their misfortunes, relieved their wanta, and who, by his polite behaviour to his prifoners, made a poterfal impreffion on the mind of the Spaniards, which could nut fail to procure a milization of the fuferings of Englifh prifoners is Spain. He reprefeated the miferable condition of his countrymo in the enemy's conntry, and obtained a promife tint Englifhmen, when priforicrs in Spain, foould be made as comfortable as ther fituation would permit. This was doing his country a fervice, which will make him fand as high in the cftimation of good men as the mott afloniming difplay of comrace, which is not always met with in a cultivated rinind.

ROE, the feed oi fpawn of fin That of the matc filhes is ufiul'y difinguind by the $n$ ne of aft ron, or $m$ its and th:t of the female, hard rac, of mavr.
 tla M. Petit fornd 3 te, $\because 4$ of $1 \rightarrow \mathrm{i}$ ? -18

 arc t-times his namber in a cou f d. I that ac co.mmor we curnins $9,3: 4,05 \mathrm{e}$ z.
 d.n.

ROEBUCK, Jours, M. D. was born at Sheffield in Roebuck. Yorkhire, in the yeat 1718. His father was a manufacturer of Shefficld goods, and by his ability and induftry procured a confiderable fortune. He intended Jolin to follow his own lucrative employment; but he was powerfully attached to other purfuite, and his father did not diffourage his rifing genius, but gave lim a liberal education.

When done with the fchool, he was put under the tuition of Dr Doddridge, by whofe inftruations he was ravidly improved in many branches of ufful knowledge. During his reffidence in the Doetor's academy at Northampton, he became intimately acquainted with Mr Dyfon and Dr Akenfide, whofe friendflip lafted to the clofe of life.

Having completed his fludies at the academy, he was aftervards fent to the cniverfity of Edinturgh, where he Itudied medicine and chemiltry in particular, which then began to attract fome attention in Scotland. He was much diftinguifhed among his fellow fludents by his logical and metaphylical acutenefs, and by great ingenuity in his arguments. At Edinburgh he likewife formed an acquaintance with Mr Hume, Dr Robertfon, and other literary characters.

Having completed his medical fludies at Edinburgh, and wholly attached to the practice of phyfic, he feent fome time at the univerfity of Leyden, where ihe obtained a degree in medicinc. He received his diploma in February 1743 , to which were affixed the relpectable names of Mufchenbroek, Oherdyk, Van Royen, Albinus, Gaubius, \&cc. He afterwards fettled as a phyfician at: Birmingham, a place which then began to make a rapid progrefs in arts, manufactures, and population, and where a favourable opening was prefented to him by the death of an aged phyfician. In this capacity he had every thing to favour bis fuccefs, fuch as his education, talents, and interefting manners, and he accordin oly met with encouragement more rapid and extenfive than his expectations had prefaged. But it was foon found that his induftry and thudies were turned to other fubjeits than thofe of his profeffion, and in a particular manner to that of chemiftry, the utility of which he was anxious to extend to the arts and manufactures. In the profecution of this idea, he fitted up a laboratory in his own houfe, where every moment of his time was fpent, not necefflarily devoted to the duties of his profeflion. There lie carried on various chemical proceffes of great inportance, and laid the foundation of his future projects.

In this manner he was led to the difcovery of certain improved methods of refining geld and filver, and an ingenious method of coliecting the fmaller part\%les of thefe met.hs, which manufactuers had formerly lof. He : llo difcovered inf. roved methods of making fublimate larilom, and many other articles of eqeal importin e. Nuch of his time heiny fill emptoyed in the dutice of his profettro, he found it neceliary to connee Hinf:lf with fome co fidential y-for, and who mieht

 N! - - 1 C rbet of Pirmincham, a gentlem.a wh ire





## R O E [ 10' ] R O E

Q. mishiz. well gualified to fupport him under tl.e many difappointments in buinefs whicls he afterwards experienced. His cheraical findies led him to the difcovery of many things both of a public and private advantage.

The extentive ufc of falphuric acid in chemiftry led matiy to various methods of obtaining it, and Dr Roebuck attempted to prepare it in fuch a manner as to reduce the price, for which purpofe he lubltituted leaden vefficis ia the room of glafs; and he had the good fortune to effect his benerolent defign. He ettablihed a manufacture of this ufeful article it Prentonpans in Scot3and, in the year 1749, which was oppofed by Dr Ward, but without fuccefs, as Roebuck's difcovery did not come within Dr Ward's patent. By concealment and fecrecy D: Roebuck and his partner preferved the advantages of their induitry and ingenuity for a number of ycars, fupplying the public with fulphuric acid at a mucli cheaper rate than had been formerly done.

He found it expedient to give up his medical profefGon altogether, and he refided in Scotland during the greater part of the year. He made fome difcoveries in the fmelting of iron-ftone, greatly facilitating that prosefs by ufing pit coal infead of charcoal. He and his partner thercfore projected a very extenfive manufactory of iron, for which they foon procured a fufficient capital, as their friends had much confidence in their integrity and abilities. Dr Roebuck at length made choice of a fpot on the banks of the river Carron as the moft advantageous Gituation for the ellablihment of their iron manufactory, abundance of iron-ftone, lime-ftone, and coal, being found in its immediate vicinity. The preparations for this eftablifhment were finifhed in the end of the year 1759, and the firf furnace was blown on the ift of January 1760 , after which a fecond was in a fhort time erected.

Thefe works turned the attention of Dr Roebuck to the fate of coal in the neighbourhood of that place, and to the means of procuring the extraordinary fupplies of it which the iron-works might require in future. He therefore became lefiee of the extenfive coal and falt works at Borrowthownefs, the property of the duke of Hamilton, in which he funk, in the courfe of a few years, not only his own, and a confiderable part of his หife's fortune, but the regular profits of his more fuccefsful works; and what diltreffed him above every thing elfe, the great fums of money which he borrowed from his relations and friends, without the profpect of ever being able to repay them. This ruinous adventure cut off for ever the flattering profpects of an independent fortune which his family once had; and he drew from his colliery only a moderate annual fupport, owing to the indulgence of his creditors. Wher he died, his widow was left without any provifion for her immediate or future fupport, and without the falleft advantage from the extraordinary exertions and meritorious induftry of her hulband.

Some years before his death, Dr Roebuck was feized with a diforder that required a dangerous operation, and which he bore with his ufual fpirit and refolution. He was reftored to a confiderable flare of his wonted health and astivity; but its effects never wholly left him. He vifited his works till within a ferw weeks of his deceafe, io order to give inftuctions to his clerks and overfeers, and was confined to bed only a few days. He departed
this life on the 1 yth of July, 1794, retaining all his faculties, fpirit, and good humour; to the lait.

A life fo devoted to bufinefs left little time for publications of any kind; but the few he left behind him fulficiently fhew what might have been expected from his pen, had the moft of his time been fpent in ftudy. All his writuags that have been publifhed, except two political pamplilets, are, a compariton of the heat of London and Edinburgh, experiments on ignited bodies, and obfervations on the ripening and filling of corn.

ROELLA, a genls of plants belonging to the pentandria clafs; and in the natural method ranking under the 29th order, Campanacea. See Botrsy Index.

ROEMER, Olaus, a celebrated Danilh mathematician and aftronomer, was born at Arbufen in Jutland, in the year 1644 , and was fent to the univerfity of CO penhagen at the age of 18 . By his affiduous application to the fudy of aftronomy and mathematics, he became fo eminent in thofe fciences, that Picard was aftonilhed and delighted with him, when making obfervations in the north, by the order of Lewis XIV. He was prevailed on to accompany Picard to France, and being prefented to the king, he was chofen the dauphin's tutor in the fudy of mathematics. He was afterwards united with Picard and Caffini in making affronomical obfervations, and became a member of the Academy of Sciences in 1672 .

His difcoveries acquired him great reputation during his ten years refidence at Paris; and he did not fcruple to affert, that Picard and Caffini took the merit of many things which belonged exclufively to himfelf. Roemer was the firft perfon who difcovered the velocity with which light moves, by means of the eclipfes of Jupiter's fatellites, determining it to be about 7 or 8 minutes in coming from the fun to the earth. This opinion was oppofed by many, but it was afterwards demonftrated in a moft ingenious manner by Dr Bradley.

Chriftian V. king of Denmark, recalled Roemer to his native country in the year $168_{1}$, when he was appointed profeffor of aftronomy at Copenhagen; and he was alfo employed in the reformation of the coin and architecture of the country, in regulating the weights and meafures, and in laying out the high roads throughout the kingdom, in the difcharge of nhich his conduc? was truly creditable to himfelf, and gave the greateft fatisfaction to his royal employer. The confequence was, that the king befowed many dignities upon him, and among others appointed him chancellor of the exchequer. In fire, he was made counfellor of ftate and burgomafter of Corenhagen, under Frederic IV. who fucceeded Chriftian already mentioned.

While Roemer was engaged in preparing to publifhs the refult of his obfervations, he was taken off by death on the $19^{\text {th }}$ of September 1710 , when about 66 years of age. Horrebow, his difciple, made up this lofs, by publifhing in $4 t 0$, in 1753 , when profeffor of aftronomy at Copenhagen, various obfervations of Rocmer, with his method of obferving, under the title of Bafis A/frenomice. He had alfo printed varions aftronomical obfervations and pieces in feveral volumes of the Memoirs of the Royal Academy of Sciences at Paris, of the inftitution of 1666 , particularly vols, If and 1 eth of that collegtion.

ROGA, in antiquity, a prefent which the emperors made to the fenators, magitrates, and cven to the people; and the popes and patriauchs to their clergy. Thele rogee were diftributed by the emperors on the firit day of the year, on their birth-day, or on the natalis dies of the cities; and by the popes and patriarchs in paffionweek. Roga is allo ufed for the common pay of the toldiers.

ROGATION, Rogatio, in the Roman jurifprudence, a demand made by the confuls or tribunes of the Koman people, when a law was propofed to be paffed. Rogatio is alfo ufed for the decree itfelf made in confequence of the people's giving their affent to this demand; to diftinguib it from a fenalus confu/tum, or decree of the fenate.

ROG_ATION-Week, the week immediately fucceeding Whitfunday; fo cailed from the three fealts therein, viz. on Monday, Tuefday, and Wedneflay.

ROGEM DE Hoveden, a leanned man of the 13 th century, was born in Yorkhire, molt probably at the town of that narne, now called Howden, fome time in the reign of Henry 1. After he had received the firft parts of education in his native country, he ftudied the civil and canon law, which were then become the moft fafhionable and lucrative branches of learning. He became domeftic chaplain to Henry II. who employed him to tranfact feveral ecclefiatical affairs; in which he acquitted himfelf with honour. But his moft meritorions work was, his Annals of England, from A. D. 731, when Bede's Ecclefiaftical Hittory ends, to A. D. 1202. This work, which is one of the moft voluminous of our ancient hiffories, is more valuable for the fincerity with which it is written, and the great variety of facts which it contains, than for the beauty of its flyle, or the regularity of its arrangement.

ROGUE, in Law, an idle fturdy beggar ; who by ancient ftatutes is for the firft offence called a rogue of the firf degree, and punithed by whipping, and boring through the grifle of the right ear with a hot iron; and for the fecond offence, is termed a rogue of the fecond degree, and if above 18 years of age, ordered to be executed as a felon.

ROHAN, Peter de, Chevalier de Gié, and marthal of France, better known by the name of Mar/bal de Gié, was the fon of Louis de Rohan, the firlt of the name, lord of Guémené and Montauban, and defcended of one of the moft ancient and moft illuftrious families of the kingdom. The family of Roban, before the hevolution, held the rank of prince in France in confequence of deriving its origin from the firf fovereigns of Brittany, and clearly admitted by the dukes of Brittany themfelves in the flates general of that province held in 1088. The houfe of Rohan had ftill another advantage, which was common to it with very few families, even the moft diftinguifhed among the princes, namely, that inftead of having been aggrandifed by the ncalth procured from alliances, it had held in itfelf for feven centuries the largeft poffeffions of any famaily in the kingdom.

One of the moft diftinguifled branches of this family was Peter, the fubject of the prefent article. Iouis XI. rewarded his bravery with the ftaff of markhal of Fance in 1475 . He was one of the four lords who governed the kingdom during the indifpofition of that prince at Chinon in 1484. Two years afterwards he oppofed the
attacks of the archduke of Auftria upon Picardy. He commanded the van-guard at the battle of Fornoue in 1495 , and fignalized himfelf much in that engagement. His bravery procured him the countenance and confidence of Louis X11. who appointed him his prime counfetlor, and general of the ariny in Italy ; but thefe advantages be lofl, by incurring the difpleafure of Anre of Brittany the queen.

The marthal had ftopped fome of her equipage on the road to Nantz; for which tbat vindictive princels prevailed on her luiband to enter into a procels againft him before the parliament of Touloufe, at that time the moft rigorous and fevere in the kingdom. He was on the 15 th of February 1506 found guilty, barihed from the court, and deprived of the privileges and emoluments of his office for five years. 'The expence of this profecution amounted to more than 31,000 livres, and it did no honour either to the king or the queen. If indeed it be true, that the queen was never fo much delighted as with the humiliation of her enemies, the liad good reafon to be fatisfied here. Jolnn of Authon, who hath entered into a pretty full detail of this affair, reports that Gié, being removed to the Chatenu de Dreux, became an object of ridicule to the witnefles who bad iworn againtt him. He wore a long white beard, and, quite full of the thoughts of his dilgrace, took it on one vecafion in his hands and covered his face with it. An ape, belonging to Alain d'Albret, count of Dreux, jumped from a bed where his mafter was repofing himfelf, and attacked the beard of Gié, who, with fome difficulty, extricated himfelf. This fene not only occafioned much laughter to the whole company who were preient, but likewife became inflantly the fubject of the farces and mummeries which were then acting in France. Even the ichool-boys made a reprefentation of it, where, alluding to the name of the queen, they faid, that there was a marfhall who withed to fhoe an afs (un ane), but that he received fuch a blow with the foot, as threw him over the wall into the garden. Marefchal de Gie died at Paris, the 22d April 1513 , perfectly difgufted with courts and grarideur.

Rohan, Henry duke of, peer of France, and prince of Leon, was born at the Chateau de Blein in Brittany in 1579 . Heery IV. under whofe eyes he gave diftinguithed proofs of his bravery at the fiege of Amiens, when only 16 years of age, loved him with as much affection as if he had been his own fon. After the death of Henry, he became chiet of the Calvinitts in France; and was equally formidable for his genius as his firord. In defence of the civil and religions rights of his party, he maintained three wars againit Louis XIII. The firit, which terminated to the advantage of the Proteftants, broke out when that prince wifhed to uftablith the Romilh religion in Le Bearn: the fecond, becaufe of the fiege which Cardinal De Richlieu caufed to be laid to Rochelle : and the third, when that place was befieged a fecond time. The coufequences of this war are fuffciently known : Rochelle furrendered; and the duke de Rohan perceiving, that after the taking of this place, the wajority of his party were endeavouring to make up matters with the court, fucceeded in procuring for then a gencral peace in 1629, upon very honourable and advantageous terms. The only facrifice of importance which the IIuguenots were obliged to make, was their
fortifications ;

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R. $1=$ fontifications; which pus it out of their power to renew the war. Some factious perfons, diffatisfied with feeing their furtrefies fall into their enemies hands, were ready to accufe their general of having fold them. This great man, unceierving of fucls odious ingratitude, pretented his breait to thele enraged malcontents, and faid, "Strike, ftrike! I wifh to die by your hands, after I have hazarded my life in your fervice." The peace of 1629 having extingu:fhed the flame of civil war, the duke de Rohan, no longer of ufe to his party, and become difagreeable at court, retired to Venice. There is a very particular ancedute of him, extracted from the Memoirs of the ducheis of Rohan, Alargaret of Bethune, daughter of the famous Sully. Whilit the duke de Rohan was at Venice, a propofal was made to him from the Porte, that for 200,000 crowns, and an annual tribute of 20,000 , the Grand Signior would give him the ifland of Cyprus, and fully invelt him with the dignity and prerogatives of king. The duke was warmly inclined to comply with this propofal, and to fettle in the illand the Proteftant families of France and Germany. He negociated this hufmels at the Porte by means of the intervention of the patriarch Cyril, with whom he had much correfpondence; but different circumftances, and in particular the death of the patriaach, occurred to break off the treaty. The republic of Venice chofe Rohan for their commander in chief againtt the Imperialits; but Louis XIII. took him from the Venetians, and fent him ambaflador into Swifferland, and into the Grilons. He wifhed to affift thefe people in bringing back La Valteline under their obedience, the revolt of which the Spaniards and Imperia. lifts encouraged. Rohan, being declared general of the Grifons, after many victories, drove the German and Spanifh troops entirely from La Valteline in 1633 . He defeated the Spaniards again in 1636 at the banks of the lake of Côme. France, not thinking it proper to withdraw her troops, the Grifons rofe up in arms, and the duke de Rohan, not fatisfied with the conduct of the court, entered into a fipecial treaty with them the 28 th March 1637. This hero, fearing the refentment of cardinal de Richlieu, retired to Geneva, with a view to juin his friend the duke of Saxe. Weimar, who wifhed binn to undertake the commano of his army, then ready to engage the Imperialifs near Rlinfield. Although he declined this honour, yet be took the command of the regiment of Naflau, with which he threw the enemy into confufion; but was himielf wounded, February 28. 1683, and died of his wounds the $1_{5}$ th of April following, at the age of 59 . He was intersed May 27 . in the cliurch of St Pierre in Gencva, where there is a magnificent monument of mar' le evected to lis memory, having on it the moft illaftious actions of his life. The dule de Rohan was one of the greaten sererals of his time, equal to the princes of Orange, and capable, like them, of fethins a commonwealth; tut more zealous than they for religion, or at le ft afpeariig to be fo. He was rigilant and indefatigable, 1:0: allowing himfelf any plealures which mirht take off bis attention from his neceflary employmens.s, and weil qualified for being the head of a party; a poft very difficult to retain, and in which he had to fear eq-aily from his enemies and his friends. It is in this lig,tit that Vultaire has viewed this illuftrious chaucter, whica be compofed the follosing verfe

$$
\begin{aligned}
& \text { Avic tous les talcos le Ciel l'avoit fait naitre: } \\
& \text { II a gut cn IIcroos; cn Saze il écrivit. } \\
& \text { If fut méme grand homme en combattant fon Maîre, } \\
& \text { Et plus grand lorfqu'il le fervit. }
\end{aligned}
$$

His military virtues were much heightened by the fireetnefs of his difpofition, his affable and courteous manners, and by a generofity which had few examples. Neither ambition, pride, nor a view of gain, could ever be traced in his character. He was wont to fay, that "true glory and a zeal for the public good never dwelt where felfinterelt reigned." Rohan had always a particular regard for Henry the Fourth : "Truly (faid he, fometimes after the death of that prince) when I think of him, my heart is ready to break. A wound received in his prefence would have afforded me more fatisfaction than now to gain a battle. I would have valued an encomium from him in this art, of which he was the greateft mafter of his time, more than the united praifes of all the commanders now living." He wrote feveral interefing performances: 1. The Interefls of Princes, printed at Cologne in 1666, in 12 mo : in which work he fully examines the public interefts of all the princes of Europe. 2. The Perfect General, or an abridgement of the wars from Cæfar's Commentaries, in 12 mo. In this he makes it appear, that a knowledge of the tactics of the ancients might be of much ufe to the moderns. 3. A Treatife on the Corruption of the Ancient Militia. 4. A Treatife on the Government of the Thirtecn Provinces. 5. Memoirs; the beft edition of which is in 2 vols 12 mo . They contain the hiltory of France from 1610 to 1629. 6. A Collection of fome Political Difcourfes on State Affairs, from 1612 to 1629, 8vo, Paris, $1644,1693,1755$; with the-Memoirs and Letters of Henry Duke de Rohan relative to the war of La Valteline, 3 vols 12 mo , Geneva, $1757^{\circ}$. This was the firft edition which appeared of thefe curious memoirs: We owe it to the great attention and diligence of M. le Baron de Zurlauben, who publihed them from different authentic manufcripts. He likewife ornamented this edition with geographical, hiforical, and genealogical notes, and a preface, which contains an abridged, but highly interelting life, of the duke de Rohan, author of the memoirs. The Abbé Pérau has alfo written a life of him, which occupies the 2 Ift and 22 d volumes of the Hiftory of the Illuftrious Men of France. Some want of fpirit might be excufed in the detail of wars finifhed upwards of 140 years ago ; yet the memoirs of the duke de Rohan fill afford confiderable pleafure in the perufal. He tells his fory with humour, with fufficient exactnefs, and in fuch a fylle as procures the confidence of the reader.
hohault, James, a celebreted Cotefian philofogher, was the fon of a me:chant of Amiens, where he was born in 1620 . He became weil fkilled in the mathematics, and taught them at Paris, where he became acquainted with M. Clerfelier, an advocate, who gave him his daughter in marriage. Rohault alfo taught philofophy in the time city with uncommon applaufe. Hie there improved the arts, and gave excelliont lectures 10 tise artifls and workmen. He died at Paris in 1675. He wrote, in French, 1. A I'reatife on Natural Fhilofoply. 2. The Elements of the Mathematics. 3. A Trcatife on Micchanics, which is very curious. 4. Pbi-

## R O L [ $1=0$ ] R O L

Rolandra Iofophical Converfations; and other wo:k\%. Hi: Phytis $\Pi$ have been tranflated i::to Latin, by Dr Samuel Ciarks, with notes, in which the Cartefian crrors arc corrected upo:s the Newtowian fytem.

ROLANDR-1, a genus of plants belonging to the fyngenefia clafs; and in the natural method ranking under the 49 th order, Compofite. The common caly. confirts of diftinct fofcult, between each of which are flintt fquame, the whole forming a round head. The partial calys is bivalved. The corolla is fmall and fumnelfraped, the tube fmall as a thread, the lacinixe fhort and acute. The ftamina are five; the ftyle biid. It has no other feed-veffel except the partial calyx, which contains a long three-fided feed. Of this there is only one fpecies, viz. the Argentea; a native of the Weft Indies, and found in copfes and wafte lands.

ROLL, in manufactories, fomething wound and folded up in a cylindrical forns.

Fets fuffs are made up in rolls, except fatins, gaufes, and crapes ; which are apt to break, and take plaits not eafy to be got out, if folded otherwife. Ribbons, laces, gallons, and paduas of all kinds, are alfo thus molled.

A roll of tobacco, is tobacco in the leaf, twitted on the mill, and wound twift over twilt about a flick or roller. A great deal of tobacco is fold in America in rolls of various weights; and it is not till its arrival in England, Spain, France, and Holland, that it is cut.

A roll of parcbment, properly denotes the quantity of 60 fkins.

The ancients made all their books up in the form of rolls; and in Cicero's time the libraries conffift wholly of fuch rolls.

Roll, in Law, fignifies a fchedule or parchment which may be rolled up by the hand into the form of a pipe.

In thefe fchedules of parchment, all the pleadings, memorials, and acts of court, are entered and filed by the proper officer; which being done, they become records of the court. Of thefe there are in the exchequer feveral kinds, as the great wardrobe roll, the cofferer's roll, the fubfidy-roll, \&ic.

Roll is alfo ufed for a lift of the names of perfons of the fame condition, or of thofe who have entered into the fame engagement. Thus a court-roll of a manor, is tbat in which the names, rents, and fervices, of each tenant are copied and enrolled.

Calves-head RoLL, a roll in the two temples in which every bencher is taxed yearly at 2 s . every barrifter at 1 s .6 d . and every gentleman under the bar at is. to the cook and other officers of the houle, in confideration of a dimner of calves-heads provided in Eafterterm.

Mufler ROLL, that in which are entered the foldiers of every troop, company, regiment, \&ic. As foon as a foldier's name is written down on the roll, it is death for him to defert.

Ro1.I.s-Office, is an office in Cbancery-lane, London, appointed for the cuftody of the rolls and records in chancery.

Mafier for the Rolits. See MNTER of the Rolls.
Rider ROLL., a fchedule of p: :- liment frequently fewcd or added to fome part of a roll or record.

RoLL of Pcrchment, are the manufcript regifters or rolls of the proceedias of our ancient parliaments,
whi in ! - ire the invew, ion of printins weac all en-the ed on parchment, and proctaimed openly in every cols ty. In thefe rells are allo contained a great many decifions of dithicult points of law, which were frequently in former times referred to the decifions of that high court.

Role, or Roller, is alfo a picce of wood, iron, brals, \&c. of a cylindrical form, ufed in the conltruction of feveral machines, and in feveral works and manufactures.

Thus in the glafs manufacture they have a runningroll, which is a thick cylinder of caft brafs, which ferves to conduct the melted glafs to the end of the table on which large looking-glaffer, \&ic, are caft.

Founders alfo ufe a roll to work the fand which they ufe in making their mould.

The prefles called calendars, as ferving to calendar ftuffs withal, confift, among other effential parts, of two rollers. It is alfo between the two rollers that the waves are given to filks, mohairs, and other ftuffs proper to be tabbied.

Imprefions from copper-plates are alfo taken by paffing the plate and paper between two rollers. See Řal ling.prefs Printing.

Rolls, in flatting-mills, \&c. are two iron inftruments of a cylindrical form, which ferve to draw or ftretch out plates of gold, filver, and other metals.

Folls, in fugar-works, are two large iron barrels which ferve to bruife the canes, and to exprefs the juice. Thefc are calt hollow, and their cavitics are filled up with wood, the cylinders of which are properly the rollers.

ROLLER, in Surgery, a long and broad bandage, ufually of linen cloth, rolled round any part of the body, to kecp it in, or difpofe it to a ftate of health.

ROLLI, Paul, an Italian poet, was born at Rome in 1687. He was the fon of an architect, and a pupil of the celebrated Gravina, who infpired him with a talte for learning and poetry. A:1 intelligent and learned Englifh lord having brought him to London, introduced lim to the royal family as a mafter of the Tufan language. Rolli remained in England till the death of Queen Caroline his protector, and the patronefs of literature in general. He returned to Italy in 1747 , where he died in 1767 , in the 80 th year of bis age, leaving behind him a very curious collection in natural hifory, \&c. and a valuable and well chofen library. His principal works firft appeared in London in 1735 , in 8 vo . They confift of Odes in blank verfe, Elegies, Songs, \&ic. after the manner of Catullus, and a Collection of Epigrams, printed at Florence in $17 \% 6$, in $8 v 0$, to which is prefixed an account of his life by the $A$ bbé Fondini. What Martial faid of his own Collection may be fiid of this, " Mlat there are few good, but many indifferent or bad, picces in it." Rolli, however, bore the character of one of the beft Italian poets of his age. During his flay in London, he procured editions of feveral authors of his own country. The principal of thefe were, the Satires of Ariofto, the Burlefque Works of Berni, Tarchi, \&ic. 2 vols, in 8vo, which poffefs confiderable merit. The Decameron of Boccace, 1727, in 4 to and folio; in which he las faithfully copied the celebrated and valuable edition publilhed by the Juntes in 1527. and, laftly, of the e!egant Lucretia of Marchetti, which, after the manufcript was revifed, was printed at London


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in 1717 , in $8 \times 0$, through the infuence and atiention of Rolli. This euition is beauliful; but the work is thought to be of a pernicious tendency. He likewife tranilated into Italian verfe the Paradife Loft of Milton, printed at London in folio in 1735; and the Odes of Anacreon, London 1 739, in 8 vo .
follin, Charlys, a jufly celebrated French mriter, was the for of a cutler at Paris, and was born there on the 3 th of January $\mathbf{1 6 6 1 .}$. He ftudied at the coliege Du Pleffis, in which he obtained a burfary through the interef of a Benedictine monk of the White Mantle, whom he had ferved at table, and who difcovered in him fome marks of gelius. Fiere he acquired the regard of M. Gobinet, principal of that college, who lad a particular efteem for him. After having fludied humanity and philoforlyy at the college of Du Pieflis, he applied to divinity three years at the Sorbounte ; but he did not profecute this itudy, and never rofe in the churcb ligher than to the rank of a tonfured prieft. Hie aferwads became profeflor of rhetoric in the fame college; and, in 1683, fucceeded Horfan, his matter, as profefior of eloquence, in the royal college. No man ever exercifed the functions of it with greater cclat: he often made Latin orations, to celebrate the memorable events of the times; and frequently accompanied them with poems, which were read and efteemed by every body. In Ióg4, he was choten refor of the univerfity; and continued in that office two years, which was then a mark of diftinction. By virtue of bis office, he foloke the annual panegyric upon Louis XIV. He made many very ufeful regulations in the univerfity; and particulariy revived the fudy of the Greek language, which was then much neglected. He fubllituted academical exercifes in the place of tragedies; and introduced the practice which had been formerly obferved, of caufing the ftudents to get by heart paffages of Scriptures. He was a man of indefatigable attention; and trained innumcrable perfons, who did honour to the churcb, the flate, and the army. The firft prefident Portail was pleafed one day to reproach Rollin in a jocular ftrain, as if he exceeded even himfelf in doing bufincfs: to whom Rollin replied, with that plainnefs and fincerity which was natural to bim, " It becomes you vell, Sir, to reproach me with this: it is this habit of labour in me which has diftinguified you in the place of advocate-general, which has raifed you to that of firft prefident: you owe the greatnefs of your fortune to me."

Upon the expiration of the rectorfhip, Cardinal Noailles engaged him to fuperintend the fudies of his nephews, who were in the college of Laon; and in this office he was agreeably employed, when, in 5699 , he was with great reluctance made coadjutor to the principal of the college of Beauvais. This college was then a kind of defert, inhabited by very few ftudents, and without any manner of difcipline : but Rollin's great reputation and induftry foon re-peopled it, and made it that flourihhing fociety it has ever fince sontinued. In this fituation he continued till 1712 ; when the war between the Jefuits and the Janfenifts drawing towards a crifis, tie fell a facrifice to the prevalence of the formier. Father le Tellier, the king's confeffor, a furious agent of the Jefuits, infufed into his mafter prejudices againft Rollin, whofe connections with Cardinal de Nosilles would alone have fufficed to have made him a

Janfenift ; and on this account he loft bis thare in the principality of Bezuvais. No man, however, could have loft lefs in this than Rollin, who had every thing left him that was neceflary to make him haypy; re, tirement, books, and enough to live on. He now began to be employed upon (guinctilian; an author he jufly valued, and faw neglected not without uneafinefs: He retrenched in him whatever he thought rather cat rious than ufeful for the inftuction of youth; he p!aced fummaties or contents at the head ui each chapter; and he accompanied the text with fhort ficict notes: His edition appeared in 1715 , in 2 vols 32 mo , with an elegant preface, fetting forth his method and views.
In 17.10 , the univerfity of Paris, willing to have a head fuitable to the importance of their intercfts in a very critical conjuncture of affaiss, cbole Rollin again reclor : but he was difplaced in about two months by a lettre de cachet. The univerfity had prefented to the parliament a petition, in which it prolefted againft taking any part in the adjuftment of the late difputes; and their being congratulated in a public oration by Rollin on this flep, occafioned the letter which ordered them to choofe a refor of more mederation. Whatever the univerfity might fuffer by the removal of Rollin, the public was probably a gainer; for he now applied himfelf to compofe his Treatife upon the Manner of Studying and Teaching the Belles Lettres, which was publifhed, two volumes in 1726, and two more in ' $728,8 \mathrm{vo}$.
This work has been juftly efteemed for the fentiments of religion which animate its author, whofe zeal for the public good prempted him to feleet the choiceft paffages of Greek and Latin authors. The fyle is fufficiently elegant, but the language on fome occafions is not remarkable for delicacy; and in the book altogether there is neither much order nor depth. The author has indeed fpoken of common things agreeably, and has fpoken as an orator on fubjects which demanded the inveftigation of the philofopher. One can fcarcely reduce any thing in him to principles.-For example, the three fpecies of eloquence; the fimple, the temperate, and the fublime, can fcarcely be underftood from him when we read that the one refembles a frugal table; the fecond a beautiful ruin, with green wood growing on its banks; and the third thunder and an impetuous river which overthrows every thing that oppofes it.

The work, however, has been exceedingly fuccefful, and juftly fo; and its fuccefs encouraged its author to undertake another work of equal ufe and entertainment ; his Hifoire Ancicnne, \&ic. or "Ancient Hiftory of the Egyptians, Carthaginians, Affyrians, Babylonians, Medes and Perfians, Macedonians, and Greeks," which he finifhed in 13 vols 8 vo , and publifhed between 1730 and ${ }^{3} 73^{8}$. M. Voltaire, after having obferved that Rollin was "the firf member of the univeffity of Paris who wrote French with dignity and correetnefs," fays of this work, that " though the laft volumes, which were written in too great a burry, are not equal to the firft, it is neverthelefs the beft compilation that has yet appeared in any language ; bccaufe it is feldom that compilers are eloquent, and Rollin was remarkably fo." This is perhaps faying too much. There are indeed in this work fome paffages very well handled; but they are only fuch as be had taken from the ancient authors, in doing jufice to whora he was always very happy.

## R I

Rollin. The reader will cafily difcover in this work the fame attachment to religion, the fame defire for the public good, and the fame love of virtue, which appears in that on the belles lettres. But it is to be lamented that his chronology is neither exact nor correfponding ; that he flates facts inaccurately; that he has not fufficiently examinel the exaggerations of ancient hifforians; that he often interrupts the molt folemn narrations with mere trifles; that his ityle is not uniform ; and this want of uniformity arifes from his borrowing from writers of a modern date 40 or 50 pages at a time. Nothing can be more noble and more refined than his rellections; but they are ftrewed with too fparing a hand, and want that lively and laconic turn on account of which the hiltorians of antiquity are read with fo much pleafure. He tranfgreffes the rule which he himfelf had eftablifhed in bis Treatile on Studies. " The precepts which have a refpect to manners (fays he) ought, in order to make an impreffion, to be Chort and lively, and pointed like a dart. That is the moft certain method of making them enter and remain on the mind." There is a vifible negligence in his diction with regard to grammatical cuttom, and the choice of his expreffions, which he does not choofe at all times with fufficient tafte, al though, on the whole, be writes well, and has preferved himfelf free from many of the faults of modern autbors. While the laft volumes of his Ancient Hitory were printing, he publifhed the firft of his Roman Hiltory; which he lived to cariy on, through the eighth and into part of the ninth, to the war againft the Cimbri, about 70 years before the battle of Actium. Mr Crevier, the worthy difciple of Rollin, continued the liftory to the battle of Actium, which clofes the tenth volume; and has fince completed the original plan of Rollin in 16 vols 12 mo , which was to bring it down from the foun a dation of the city to the reign of Conftantine the Great. This hiftory had not fo great fuccefs as his Ancient Hiftory had. Indeed it is rather a moral and hiftorical difcourfe than a formal hiftory; fer the author does little more than poiut out fome more remarkabie events, while he dwells with a fort of ponlixity on thofe parts which furnifh him a free field for moralizing. It is alternately difufe and barren ; and the greateit adrantage of the work is, that there are feveral paffages from $\mathbb{T}$. Livy tranflated with great elegance into French. He alfo publifhed A Latin Trantation of moft of the Theological Writings relatise to the difputes of the Times in which he lived. Rollin was one of the molt zealous adherents of Deacon Paris; and before the inclofure of the cemetery of St Medard, this diffinguifhed character might have been often feen praying at the foot of his tomb. This he confefes in his Letters. He publifhed alfo Leffer Pieces; containing different Letters, Latin Harangues, Difcourfes, Complimentary Addreffes, \&c. Paris 1771,2 vols, 12 mo . A collection which might have been contained in one volume, by keeping in only the beft pieces. It is notwithftanding valuable for forme good pieces which it contains, for the favourable opinion which it exhibits of folid probity, found reafon, and the zeal of the author for the progrefs of virtue and the prefervation of tafte. The Latin of Rollin is very correct, and much after the Ciceronian ftyle, and embellifhed with moft judicious thoughts and agreeable images. Full of the reading of the ancients, from which be brought quotations with as much pro-
priety as plenty, he exprefied himfelf wihh much fpirit R...is, and excellence. His Latin poems delerve tle fame eulo- Rul ing. gium.

This excellent perfon died in 1741. He had been named by the king a member of the academy of inferiptions and belles lettres ia 1 yO1 : but as he had not then brought the coilege of Beauvais into repute, and found he had more buinefs upon his. hands than was conkiltent with a decent attendance upon the functions of an academician, he begged the privileges of a veteran, which were honourably granted him. Neverthelefs, he maintained his connections with the academy, attended their affemblies as often as he could, laid the plan of his Ancient Hiftory before them, and demanded an academician for his cenfor. Rollin was a man of an admirable compofition; very ingenious, confummate in polite learning, of rigid morals, and eminently pious. He was rather too religious; his religion carrying him into the territories of fuperlfition ; and he wanted nothing but a mixture of the philofophic in his nature to make bim a very perfect character. Nothing could be more benign, more pacific, more fweet, more moderate, than Rollin's temper. He fhowed, it mult be owned, fome zeal for the caufe of Janfenifm ; but in all other refpects he was exceedingly moderate. The celebrated poet Rouffeau conceived fuch a veneration for him, that he came out of banifhment incognito to Paris, on purpofe to vifit him and pay his refpects to him. He looked upon his hifories, not only as the beft models of the hiftoric kind, but as a complete fyitem of politics and morals, and a moft inftructive fchool for princes as well as fubjects to learn all their duties in.

Inftead of biulhing at the lownefs of his birth, Roliiry on no occation hefitated to fpeak of it. "It is from the Cyclops's thop (fays he, in a Latin epigram to one of his friends, to whom he had fent a fmall fword) that I have taken my fight towards Parnaffus." He was not, however, without fome thare of vanity, efpecially at hearing mention made of his writings, of which the well-timed praifes of his adherents had given him-a very high opinion. He foke without any diffrmulation what he thought; and his opinions were lefs the effect of prefumption than of opennefs of heart. He was one of thofe men who are vain wihout any mixture of pride. Rollin fpoke pretty well; but he had a greater readinefs of writing than fpeaking; and much more fatisfaction might be derived from his works than from his converfation. His name became famous tbroughout Europe ; feveral princes lought the honour of his friendthip. The duke of Cumberland and the prince-royal of Pruffia (alterwards king) were among the lift of his admirers. I his monarch honoured with him leveral letters ; in one of which he pays him the following compliment, "Men of your character are fit companions for kings." As to the literary nierit of this sathor, it was, we furipect, too much extolled in his own time, and has been too much undervalued in ours.

ROLLING, the motion by which a frip rocks from fide to fide like a cradle, occationed by the agitation of the waves.

Rolling, therefore, is a fert of revolution about an imaginary axis paffing through the centre of gravity of a Nhip: fo that the nearer the centre of gravity is to the keel, the more violent will be the rolling motion; becaufe the centre about which the vibrations are made

## $\mathrm{R} O$ L [ It2 $] \quad$ R O L

Rollins, is placed fo low in the bottom, that the refitunce miade by the keel to the volume of water which it difplaces in rolling, bears very listle prowortion to the force of the vibution above the centic of gravity, the radius of whicin extends as high as the malt-heads.

Bat if the centre of gravity is placed lizher above the keel, the radius of vioration will not only be dimimihed, but an additional force to oppole the motion of rolling will be communicated to that part of the flhip's bottom which is below the centre of gravity.

So far as relates to the effect of rolling, when produced by the quality or Aowage of the ballatt, and to the manner by which it may be prevented, viz. a change of the quantity or difpofition of the ballaft, we fhall endeavour to explain under the article Trim. It may, however, be neceffary to remark, that the conifruction of the thip's bottom may allo contribute to diminish this movement confiderably.

Many fatal difafters heve happened to fhips arifing from violent rollings; as the lofs of the maits, loofening of the cannon, and ltraining violently on the decks and fides, to as to weaken the fhip to a great degree. See Pitching.

## Rolling-Prefs. See Rolling Press.

Rolling. Tackle, a pulley or purchafe faftened to that part of a fail-yard which is to the windward of the malt, in order to confine the yard clofe down to the ieeward when the fail is furled.

It is ufed to prevent the yord from having a great friction againf the malt in a high fea, which would be equally pernicious to both.

ROLLO, the conqueror of Normandy, was a Norwegian duke, banifhed from his country by Harold Harfager, who conquered Norway in 870 , on account of the piracies he exercifed. He firt retired with his feet among the illands of the Hebricies to the northwelt of Scotland, whither the flower of the Norwegian aobility had tled for refuge ever fince Harold had become mafter of the whole kingdom. He was there received with open arms by thofe warriors, who, eager for conqueft and revenge, waited only for a chief to andertake fome glorious enterprife. Rollo fetting himfelf at their head, and feeing lis power formidable, failed towards England, which had been long as it were a field open on all fides to the violence of the northern nations. But the great Alfred had fome years before eftabiifhed fuch order in his part of the iland, that Rollo, after feveral fruitlefs attempts, defoaired of forming there fuch a fettlement as fhould make him amends for the lofs of bis own country. He pretended, therefore, to hase had a fupernatural dream, which promifed him a glorious fortune in France, and which ferved at leafl to fupport the ardour of his follewers. The weaknels of the government in that kingdom, and the confufion in which it was involved, were $1: 1$ more perlivalive reafons to infare them of fuccefs. Hi wins thorefore fatled up the ceine ta Kouen, be irme jisely tonk that capital of the provirce, then called ${ }_{\text {etelfia, }}$ and making it h's mago$\therefore$ sc of arms, le advanced wo to Par's, to whith he iaid facge in form. This swar at length ended in the e. tire celti nt of Ne"Jria, which Churles the Siminde
 ordes 10 parcene a perce. Rulo ecsived i, in uerpe-

pendant on the crown of France. A defcription of the interview between $\mathrm{C}^{1}$ larles and this new duke gives us a curious picture of the manners of thefe Normans (as they were cailed by foreigners) ; for the latter would not take the oath of fealty to his lovereign lord any other way than by placing his hands within thofe of the king ; and ablolutely refuled to kils his feet, as cuttom then required. It was with great difficuliy he was prevailed on to let one of his warriors perform this ceremony in his ftead; but the officer to whom Rollo deputed this fervice, fuddenly raifed the king's foot fo high, that he overturned him on his back; a piece of rudenefs which was only laughed at: to fuch a degree were the Normans feared, and Charles defpifed.

Soon after, Rollo was perfuaded to embrace Chriftianity, and he was baplized with much ceremony by the archbihop of Rouen in the cathedral of that city. As foon as he faw himfele in full pofleftion of Normandy, he exhibited fuch virtues as rendered the province happy, and delerved to make his former outrages forgotten. Religious, wife, and liberal, this captain of pirates became, after Alfred, the greatelt and molt humane prince of his time.

ROLLOCK, Roeert, the firlt principal of the univerfity of Edinburgh, was the fon of David Rollock of Powis, in the vicinity of Stirling. He was born in the year 1555 , and was taught the rudiments of the Latin tongue by a perfon then crinent in lis profeffion. He was fent from fchool to the univerfity of St Andrews, where his progrefs was fo rapid, that he was mado profeffor of philofophy foon after he obtained the degree of mafter of arts.

The magiftrates of Edinburgh having petitioned the king to found a univerfty in that city, they obtained a charter under the great feal, by which they were allowed all the privileges of a univerfity, which was built in $1 ; 82$, and Mr Rollock was cho!en principal and profeflor of divinity. He was foon famous in the univerity on account of his lectures, and among his countrymen at large for his perfuafive mode of preaching. In the year 1593, Principal Rollock and others were appointed by parliament to confer with the popilh lords; and in the following year he was one of thofe made choice of by the general afiembly, to prefent his majefty with a paper, entitled, the dangers which, through the impunity of ciscommunicatyd papifts, traffickers with the Spaniards, and other enemies of the religion and efeate, are immincht 10 the true velagion profeffed within thas realm, his majefly's perfon, crun:n, and hiberty of this our. native country. His zeal againit popery was carried to excels, and he feems to have been of opinion, that it was incumbent on the civil magiltrate to punith idolatry with death, In the year 150 :, he was e:apowered, along with others, to vifit the difierent univerfitics in Scutland, with a view to enquire into the doctrine and practice of the different maliers, the dilcipline adopted by them, and the ftaie of their rents and living, which they were ordered to report to the next general affumbly.

He was chofen moderator of the general affembly in the year $159^{-}$, at whi ho peried he was foniunate enough to obtain the redrefs of ieveral glating abufes. The greater part of his life was fpent in conduefing t'e affurs of the courch, yet Spotti wood aflures us th at he woud rather have preforred retirement and dud: In-

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Rollock deed, the feeblenefs of his conflitution was not equal to II the hurry and buftle of public life, which he did not much affected with the Itone, the pains of which he bore with the fortituce and refignation of a Chriftian. He died at Edinburgh on the laft day of February $\mathbf{1 5 9 8}$, in the 43 d year of his age, befeeching his brethren, in his latt moments, to be more dutiful and obedient to their gracious fovereign.

Short as his life was, he publified many works, of which the following is a fummary. A Commentary on the firft book of Beza's Queftions ; on St Paul's Epiftle to the Ephefians; on the prophet Daniel ; a Logical Analyfis of St Paul's Epiftle to the Romans; fome Queftions and Anfwers concerning the Covenant of Grace and the Sacraments; a treatife of Effectual Calling ; a Commentary on the Epiftles of Paul to the Theffalonians and Philemon ; on fifteen felect pfalms; on the Gofpel of St John, with a harmony of the four Evangelits upon the death, refurrection, and afcenfion of Jelus Chrift ; certain Sermons on feveral places of St Paul's epiftles; a Commentary on the Epiftle to the Coloffians; a Logical Analyfis of the Epifle to the Hebrews ; of the Epifle to the Galatians; a Commentary upon the firf two chapters of the firt Epittle of St Peter ; a Treatife of Juftification, and another of Excommunication. All thefe, except the fermons, were written in Latin. The following epitaph feems to prove that Rollock was much efteemed in the univerfity over which he prefided.

Te Rolloce, extincto, urbs mœfta, academia mœfta eft; Et tota exequïs Scotia meefta tuis.
Uno in te nobis dederat Deus omnia, in uno Te Deus eripuit omnia quæ dederit.
ROMAN, in general, fomething belonging to the city of Rome. Sie Rome.

King ef the ROMANS, in Modern Hiflory, is a prince elected to be fucceffor to the reigning emperor of Germany.

ROMIANCE, in matters of literature, a fabulous relation of certain adventures defigned for the entertainment and inftruction of the readers, and differing from the novel as it always exhibits actions great, dangerous, and generally extravagant. Many authors of the firft name have written on the ancient romance. It has exercifed the pen of Hurd, of Warburton, and of fome ladies, who have not thought it any derogation to the fenfibility of their fex to unite antiquarian refearch with the cultivation of the belles lettres. We have not, however, feen anywhere fo concife, juf, and elegant an account of the origin and progrefs of romances as in D'Ifraeli's Curiofities of Literature. "Romance (fays this writer) has been elegantly defined the offepring of fiction and lore. Men of learning have amufed them-

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felves with tracing the epocha of romances. In this Romanc: refcarch they have difplayed more ingenuity than judgement ; and fome have fancied that it may have exuteo as far back as the time of Ariftotle; Dearchus, one of his difciples, having written leveral works of this amu. fing fpecies.
" Let us, however, be fatisfied in deriving it from the Theagenes and Chariclea of Heliodorus, a bifhop who lived in the $4^{\text {th }}$ century, and whole work has been lately tranflated. This elegant prelate was the Grecian Fenelon (A). Beautiful as thefe compofitions are when the imagination of the writer is ufficiently ftored with accurate oblervations on human nature, in their birth, like many of the fine arts, they found in the zealots of religion men who oppofed their progrefs. However Heliodorus may have delighted thofe who were not infenfible to the felicities of a fine imagination, and to the enchanting elegancies of ftyle, he raifed himfelf, among his brother ecclefiaftics, enemies; who at length fo far prevailed, that it was declared by a fynod, that his performance was dangerous to young perfons, and that if the author did not fupprefs it, he mult refign his bifhopric. We are told he preferred his romance to his bifhopric. Even fo late as in Racine's time, it was held a crime to perufe thefe unhallowed pages. He informs us, that the firft effufions of his mufe were in confequence of fludying that ancient romance, which his mafter obferving him to devour with the keennefs of a famifhed man, he fnatched it from his hands and flung it in the fire; a fecond copy experienced the fame fate. What could Racine do ? He bought a third, and took the precaution of devouring it fecretly till he got it by heart; after which he offered it to his mafter with a fmile to burn, if he chofe, like the others.

The decifion of thefe bigots was founded in their opinion of the immorality of fuch works. They alleged, that the writers paint too warmly to the imagination, addrefs themfelves too forcibly to the paffions, and, in general, by the freedom of their reprefentations, hove on the borders of indecency. This cenfure is certainly well-founded. Many of the old romances, and even of the dramas, acted in Scolland two centuries ago, are fuch as common proftitutes would in this age think indecent. But we are at prefent concerned with the origin of romance.
"The learned Fleury thinks that they were not known till the 12 th century, and gives as their original the biltory of the dukes of Normandy. Verdier, whofe opinion is of no great weight, fays the invention of romance was owing to the Normans of France ; and that thefe fictions being originally written in the old Norman language, they were entitled Normances; the name was afterwards altered to that of Romances. The Spaniards, who borrowed them from the French, called them Romanzes, which alfo did the Italians.

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\mathbf{P} \quad \text { " Dom }
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(A) An ingenious and learned friend inquires, "Is not the romance of the Golden Afs, by Apuleius, to be confidered as an carlier fpecimen than that of Heliodorus ?' 'To this our author has no objection; but he would not warrant any romance to be the firft that evur was written. It is thus that fome writers, more learned than fagacious, have difcovered the firlt inventor of epitolary correfpondence. A lady receives this honour: fuch learning is defperate! From the Afiatic Refearches and other publications on Oriental literature, we are led to believe, that the native country of romance is the eaf ; where it feems to have flourifhed in all its extravagant grandeur from time immemorial.

## $\mathrm{R} \quad \mathrm{O} \quad \mathrm{M} \quad\left[\begin{array}{lll}114\end{array}\right] \quad \mathrm{R} \quad \mathrm{O} \quad \mathrm{M}$

Romarce. "Dom Rivet, one of the learned affociates of the congregation of St Maur, authors of the Literary Hillory of France, fixes their origin in the soth century. He fays, that the molt ancient romanie krown was one which appeared in the middle of that century, under the title of Pliiomenn, or the Belowed. This romance contains the prelended exploits of Charlemagre before Narbonne. At Touloufe, he tells us, they have preferved a copy of the Philomena in its origimal language; that is to fay, the Romaunt or polihed ; fuch as was then fpoken at court. They prefcred this language to the Latin, which was then that of the common people, but vitiated with their corruptions.
"So far have we travelled on the road of conjecture: we fhall now turn into the path of fact. IL is' certain that thefe compofitions derive their name from the language in which they were firft written. Abbe Iraild has given us the characer of the earliefl romances, which we fhall tranfcribe; for to add to what is well expreffed, however it may ple:fe the vanity of a writer, feldom tends to the gratification of the reader.

- The firft romances were a monitrous afficmblage of hiflories, in which truth and fiction were equally blended, but all without probability; a compofition of amorous adventures, and all the extravagant ideas of chivalry. The incidents are infinitely muliplied; dellitute of connection, of order, and art. Theie are the ancieirt and miferable romances which Cervantes, in his celebrated fetirical romance of Don Quixote, has covered with an etemal ridiculc.'
"It is, however, from thefe productions rather in their improved itate, that poets of all nations have drawn their richeft inventions. The agreeable uildnefs of that fant. cy which characterized the ealtern nations was caught by the crufaders. When they returned home, they mingled in their own the cuftoms of each country. The Saracens, who were men like themfelves, becaufe they were of another religion, and were therefore their eneanies, were pictured under the tremendous form of Paynim Giants. The credulens render of that day followed with trembling anxiety the Red-crofs Knight. It was thus that fiction embellifhed religion, and religion invigorated fiction. Such incidents have enlivened the cantos of Ariofto, and adorned the epic of Taffo. Spenfer is the child of their creation; and it is certain that we are indebted to them for fome of the bold and ftrong touches of Milton."

Other circumftances however have been affigned as the fources of thefe extravagant fictions. "Caftles were erected to repulle the vagrant attacks of the Normans; and in France (from the year 768 to 987 ) thele places became fatal to the public repofe. The petty defpots who raifed thefe caftec, pillaged whoever pufied, and carried off the females who pleafed them. Rapine, of evcry kind, was the privilege of Lards! Mezeray obferves, that it is from theee circumilfances romancers h.ve invented their tales of knights erran:, monhlers, and giants.
"De Saint Foix, in his Fiftorical Fllays on this fubject, thus expreffis himfelf: ' Women and givls nere not in greater fecurity when they paffed by abbeys. The monks furfained an affault rather than relinquilh their prey: if they faw themelelves lofing ground, they brought to their walis the relics of fome faint. Then it generally happened that the affailants, feized with aw-
ful veneration, retired, and dared not to purfue their Romaver: vengeance. 'This is the origin of the enchanters, of the enchantments, and of the enchanted cafles, celicriued is romances.?
"To thefe may be added what the author of Northern Antiquilies, vol. i. p. ${ }^{2} 43$, wites, that 'as the walls of the caftics ran winding round them, they often called them by a name which fignified ferpents or deagons; and in thele were commonly fecured the women and young maids of dillinction, who were feldom fafe at a time when fo many bold warriors were rambling up and down in fearch of adventures. It was thas cultom which gave occafion to ancicnt romancers, who knew not how to delcrive any thing fimply, to invent fo many fables concerning princefles of great beauty, guarded by dragons.'
"The Italian romances of the $14^{\text {th }}$ century were fpread abroad in great numbers. Tley formed the polite literature of the day. Kut if it is not pernitted to authors freely to expreis their ideas, and give full play to the imagination, thefe works muft never be placed in the tludy of the rigid moralift. They indeed puffed their indelicacy to the verge of grollinefs, and feemed rather to feek than to avoid fcenes which a modern would blufl to defcribe. They (to employ the expieffron of one of their authors) were not athamed to nanse what God had created. Cinthio, Bandello, and others but chiefly Boccacio, rendered libertinim agreeable, Ly the falcinating charms of a polifhed ftyle, and a lusuriant imagination.
"This however muft not be admitted as an apology for immoral works; fur poifon is ftill poifon, even when it is delicious. Such works were, and fill continue to be, the favourites of a nation which is fligmatiled from being prone to illicit pleafures and impure amouls. They are litll curious in their editions, and are not parfimonious in their price for what t .9 call an unceffrated copy. There are many Italians, not literany men, who are in poffeffion of an ample library of the old novelifts.
" If we pafs over the moral irregularitics of thefe romances, te may difcover a rich vein of invention, which only requires to te releafed from that rubbilh whichdisfigures it to become of an invaluable price. The Decamerons, the Hecaton miti, and the Novellas of thefe writers, made no inconfiderable figure in the littie library of our Shakefpeare. Chaucer is a notorious inaitator and lover of them; his Knight's ''ale is little mure than a paraphrafe of Boccacio's Tcfeovide. Fontaive has caught all their cliarms with all their licentioufnefs. From fuch works, thefe great poets, and many of their contemporaries, frequently boriowed their plots; not uncommonly hindled at their flame the ardour of their genius; but bending too fu miffively to their own feculiar taite, or that of their age, in extracting the ore, they have not purifed it of the alloy.
" We mulf now turn our contemplation to the French romances of the laft century. They were then carricd to a point of pertection, which as romances they cannot cicced. To this the Atfrea of D'Urée greally contriunted. It was followed hy the Illuftrious Baffia, the Great Cyrus, Clelia, \&c. which, though not adapted to the prelent age, gave celclrily to their authors. Thi. flyle, as well as that of the Artica, is ciiffufe and infipid. Zaide (attributed by forme to Segrais, but by

Huet

## I O M <br> $\left[\begin{array}{ll}115]\end{array}\right.$

Romance Huct to Madame La Fayette) and the princefs of \|| Cleves are tranilated, and though they are matterpieces Romano. of the kind, were never popular in our country, and are little adapted to its genius.

- It is not furprifing that romances have been regarded as pernicious to good fenle, morals, tafte and literature. It was in this light they were confidered by Boileau; becaufe a few had fucceeded, a crowd imitated their examples. Gumberville and Scudery, and a few more were admired ; but the fatirit dilolved the illufion. This he did moft effectually by a dialogue, in which he ridicules thofe citizens of a certain diftrict, whole characters were concealed in thefe romances, under the names of Brutus, Horace Cocles, Lucretius, and Clelia. This dialogue he only read to his friends, and did not give it for a long time to the public, as he elteemed Mademoifelle de Scudery : but when at length it was publithed, it united all the romance writers againft our fatirif.
"From romances, which had now exhaufted the patience of the public, fprung novels. They attempted to allure attention by this inviting title, and reducing their works from ten to two volumes. The name of romance difgufted; and they fubslituted thofe of hiftories, lives, memoirs, and adventures. In thefe works (oblerves Irail) they quitted the unnatural incidents, the heroic projects, the complicated and endlees intrigues, and the excrtion of noble paffions; heroes were not now taken from the throne, they were fought for even amongit the loweft ranks of the people. On this fubject, I thall juft obferve, that a novel is a very dangerous proifon in the harid of a libettine; it may be a falutary medicine in that of a virtuous writer." See Novel.

RONAGGNA, a province of Italy, in the pope's territories, bounded on the north by the Ferrarefe, on the fouth by Tufcany and the duchy of Urbino, on the eaft by the gulf of Venice, and on the weft by the Bolognefe and a part of Tufcany. It is fertile in corn, wine, oil, fine fruits, and paltures. It has alfo mines, mineral waters, and falt-works, which make its principal revenue. Ravenna is the capital town.

ROMANIA, a province of Turkey in Europe, bounded on the north by Bulgaria, on the eaft by the Black fea, on the fouth by the Archipelago and the fea of Marmora, and on the weft by Macedonia and Bulgaria; being 200 miles in leneth and 150 in breadth. It was formerly called Thrace, and is the principal and largeft of all the provinces the Turks poffefs in Eurone. It is a fruitful country in corn and paftures, and tbere are mines of filver, lead, and alum. It is divided into three great governmen's or fangiacates; namely, Kirkcl, of which Philipoli is the capital; Galipoli, whofe capital is of the fame name ; and Byzantium, or Byzia, or Viza, of which Conftantinople is the capital. The Turks beftow the name of Romelia on all the territories they poffefs iat Europe.

ROMANO, Giviso, a famous painter, was the difeiple of Raplrael, who had fuch an affection for him, that he appointed him, with lohn Francis Penni, his heir. His conceptions werc more extraordinary and more clevated than even thofe of his mafter, but not fo natural. He was wonderful in the choice of atti-
tudes; but did not perfectly underfand the licht, and Komano, flades, and is fiequently harfh and ungiacefs!. The Rome. folds of his draneries, favs Du Frelnoy, are neither beautiful nor great, ealy nor natural, hut all extravagant, lake the fanta lical habits of comedians. He was, however, fuperior to moft painters, by his piofound knowledge of antiquity ; and, by converfing with the warks of the mof excellent pocts, particularly Homer, he made himfelf mafter of the qualifications neceflarily required in a great defigner. Julio Rumato was alo well fkilled in architecture. He was employed by Cardinal de Medicis, who was afterwards pope under the name of Clement VII. ; and afterwards went to Mantua, whither he was invited by Frederic Gonzaga, marquis of that city, in order to avoid his being juitly punifhed for his having drawn at liome the defigns of 20 obfcene plates, engraved by Mark Antony, to which Aretine added the fame number of fonnets. Julio Romano embellihed the city of Mantua with many of his performances both in painting and architecture ; and died in that city in 1545 , at 45 years of age, much regretted by the marquis, who had an cxtraordinary friendihip for him.

ROME, a very ancient and celebrated city of Italy, fituated on the river Tiber, in E. Long. $13^{\circ}$. N. Lat. 41.45. once the capital of the greateft empire in the woild; and famous in modern hittory for being the centre of an ecclefialtical tyramy, by which for many ages the greateft part of the world was held in fubjection.

The ancient Romans derived their origin from $Æ$-Romans de neas the Trojan hero; and though fome hiftorians pre-feended tend to treat his voyage into Italy as a mere fable, yct neas. no fufficient reafons for rejecting this account have been offered, nor has any more probable hittory of the origin of the Roman name been given; fo that, without entering into the difpute, we fhall proceed to the hiflory of Eneas and his fucceffors as they are recorded by the generality of Latin wricers.

When the Greeks, by the treachery of the fons of Antenor, or by whatevcr other means it lappened, were become matiers of Truy, 年neas with the forces under his command recired into the fortrefs of the city, and defended it bravely for fome time ; but yielding at length to neceffity, he conveved away his gods, his father, wife, Eneas flics was, wite, and children, with every thing he had that from Troy was valuable, and, followed by a numerous crowd of to Mount Trojans, fled to the frong places of Mount Ida. Hi- tsa. ther all thofe of his countrymen, who were more anxious than the reft to preferve their liberty, fiocked to him from the feveral towns of Troas. His army thus augmented and advantageoufly polted, he continued quiet, waiting for the departure of thie Greeks, who it was imagined, would return home as foon as they had pillaged the country. But thefe, after they had erriched themfelves with the fpoils of 'lioy and of the neighboning towns, turned their arms againft the fsgitives, refolving to attack them in their firone-holds upon the mountain. Eneas, to avoid the hazard of being, forced in his laft refuge, had recourle to negociation; and, by his hecalds, intreated the encmy not Makes to conftrain him to a battle. Peace was granted him, eat, wath on condition that he with his followers quitted the Tro- the Grueks, jan territories; and the Grecks, on their part, promi hiscoun-
feduy.

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{lllllll}116\end{array}\right] \quad \mathrm{R} O \quad \mathrm{M}$

Rome. fed not to moleft him in his retreat, but to let him fafely pafs through any country within the extent of their domination.
| Upon this affurance $\bar{\pi}$ Eneas equipped a fleet, in order to feek a fettlement in fome foreign land. We are told, that at his departure he left bis eldelt fon Afcanius with the Dafylites, a people of Bithynia, who defired to have him for their king; but that the young prince did not remain long with them : for when Scamandrius (Aftyanax), with the relt of the Hectoridæ whom Neoptolemus permitted to return home from Greece, repaired to him, he put himfelf at their head, and led them back to their native country.

The Trojan, having crofed the Hellefpont, arrived in the peninfula of Pallene, where he built a city, called from him Feneia, and left in it a part of that multitude which had followed him. From thence he failed to Delos; and thence to Cythera, where he erected a temple to Venus. He built another to the fame goddefs in Zacynthus, in which ifland he likewife inftituted games, called the races of Exneas and Venus: the flatues of both, fays Dionyfius, are flat.ding to this day. In Leucas, where the Trojans landed, was to be feen, in the fame author's time, a temple erected to Venus the mother of Æneas. Nor were Actium and Ambracia without menuments that teflified his arrival in thofe places. At Dodona were found brazen vafes, upon which the name of the Trojan hero, who had made an offering of them to Jupiter, was engraven in old characters. Not far from Buthrotos, in Epirus, a Trojan camp which had efcaped the injuries of time, retained the name of Troja. All thefe antiquities, fill fubfirting in the reign of Augufus, were then looked upon as indifputable proofs of Æeneas's 'voyage to Epirus : " and that he came into Italy (adds the fame Dionyfius) we have the concurrent teftimony of all the Romans ; the ceremonies they obferve in their facrifices and feftivals bear witnefs to it, as allo the Sibylline books, the Pythian oracles, and many other things which nobody can reafonably reject as invented merely for ornament."

The firlt land of Italy which Eneas made, after crofing the Ionian fea, was Cape Minerva, in Iapygia; and here be went on floore. Sailing afterwards from hence, and coalting along the fouth eaff of Italy and the eait and fouth fides of Sicily, he arrived with his fleet either by choice or by ftrefs of weather at the port of Drepanum in that ifland. Elymus and Ægeftus, who had efcaped from Troy a little before him, had brought a Trojan colony to this place. Eneas augmented it by a good number of his followers, whom, pleafed to have found a fafe relling place after many dangers and fatiguing voyages, he willingly left behind him at their requeft; though certain authors pretend that he was conftrained to it by the difficulty of tranfporting them, becaufe fome Trojan women, weary of the fea, had burnt a confiderable part of his hips.

Enens, leaving Drepanum, Atered his courfe for Italy acrofs the Tyrrhenian fea. To the cape where he firft landed, he gave the name Palinurus, from one of his pilots who died there. The littlc ifland of Leucafia, not far diflant, whither he failed next, got its name in like manner from a daughter of Æneas's fifter, who there ended her days. The port of Mifenum, the ifland of frochyta, and the promontory of Cajeta, where he
fucceffively arrived, were fo called from being the burisl places, the firtt of a noble Trojan his companion, the fecond of his kinfwoman, and the third of his nurfe. At length the Trojan prince and his chofen band finithed their tedious and painful voyages on the coalt of the fince fannous Latium. This was a fmall Lands in territory on the eaft fide of the river Iiber, contain-Italy. ing a part of the prefent Campagna di Roma: Latinus was the king of it ; his capital town, Lauientum; his fubjects, a people who, till his time called Aborigines, had from him taken the name of Latins. Here, far removed from their implacable enemies the Greeks, Æneas and his followers undertook to raife a fecond Troy: they fortified a camp near the mouth of the Tyber, gave it the name of Troy, and flattered themfelves with the hopes of a quiet fettlement, and a period to all their unhappy adventures.

When Eneas arrived in Italy, Latinus was engaged in a war with the Rutuli, a neighbouring people, in which he was attended but with very indifferent fuccefs, when news was brought him that a foreign army had made a defcent on his coafts, pillaged the maritime part of his dominions, and were fortifying themfelves in a camp at a frall diftance from the fea. Hereupon he marched againft them with all his forces, hoping to oblige them to reimbark and abandon his dominions, without meeting with any great refiftance from a band of vagabonds, as he fuppofed, or pirates, come only to feek for plunder : but finding them, as he drew near, well-armed, and regularly drawn up, he thought it advifable to forbear engaging troops that appeared fo well difciplined; and, inftead of venturing a battle, to defire a parley. In this coaference Latinus underfanding who they were, and being at the fame time ftruck with terror, and touched with compaffion for thofe brave but unfortumate neen, entered into a treaty with them, and affigned them a tract of land for a fettlement, on condition that they fhould employ their arms and exert their valour in defence of his dominions, and look upon the Rutuli as a common enemy. This condition Æneas readily accepted ; and complied with his engagement fo faithfully, that Latinus came at ength to dence in the Troian; and vinia, his daughter and only child, in marriage, fecur- marries his ing to him by that means the fucceffion to the throne of daughter. Latium. FEneas, to teftify his gratitude to Latinus, and affection for Lavinia, gave her name to the camp he had pitched; and inftead of Troy called it Lavinum. The Trojar:s followed the example of their leader; and by making alliances with Latin families, became, in a flort time, one and the fame people with the Latins.

In the mean time Turnus, the queen's nephew, who had been brought up in the palace under the eye of Latinus, and entertained hopes of marrying Lavinia and fucceeding to the throne, feeing the princefs beflowed on a itranger, and all his views defeated, went over to the Rutuli; and by flirring them up, brought on a battle between them and the Latins, in which both he and Latinus were killed. Thus Æeneas, by the death of his father-in-law, and by that of a troublefome rival, came into the quiet poffeffion of the kingdom of Latium, which he govemed with great wifdom, and tranfmitted to his pofterity.

Encas is faid to have reigned three years; during

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Roms. which time he eftablifhed the worfhip of the gods of his own country, and to the religion of the Latins added that of Troy. The two Palladiums, which had been the protectors of that city, became the tutelary deities of Lavinium, and, in after ages, of the whole Roman empire. The worthip of Vetta was likewife introduced by Eneas; and virgins, from her called Veftals, were appointed to keep a fre continually burning in honour of that goddefs. Jupiter, Venus, and many other dcities who had been revered in Troy, became in all likclihood, known to the Latins by means of Eneas; which gave occafion to the poets of reprefenting him under the character of a pious hero.

While Eneas was thus employed, the Rutuli, ancient enemies of the Latin name, entering into an alliance with Mezentius king of the Tyrrhenians, took the field with a defign to drive out thole new-comers, of whole power they began to conceive no fmall jealouly. Eneas marched out againtt them at the head of his Trojans and Latins. Hereupon a battle enfued, which lafted till night; when Æneas being pufhed to the banks of the Numicus, which ran clofe by Lavinium, and forced into that river,

In the mean time Lavinia, who had been left with child by Eneas, entertaining a ftrong jealouly of the ambition of her fon-in-law, retired to the woods, and was there peaceably delivered of a fon, who, from his father, was named Fineas, and, from the place of hiswers to Labirth, had the furname'of Sylvius: but as the queen's her fon. tlight, who had dilappeared on a fudden, raifed fufpicions at Lavinium prejudicial to the reputation of Afcanius, he ufed all poffible means to remove them, caufed diligent fearch to be made aftcr Lavinia, calmed her fears, and prevailed upon her to return to the town with her fon, whom he ever after treated as a brother. Lavinium grew every day more populous; but as it was in reality the patrimony of Lavinia, and the inheritance of her fon Sylvius, Afcanius refolved to refign it to them, and build elfewhere another city for himfelf. This he made the place of his refidence, and the capital of his new kingdom, calling it Alba Longa; Refigns the Alba, from a white fow, which we are told Æneas king dom. had found in the place where it was built; and Longa, and founds to dillinguilh it from another town of the fame name ga. in the country of the Marfi; or rather, becaufe it extended, without having much breadth, the whole length of a lake near which it was built. It was $3 \supset$ years after the building of Lavinium that Afcanius fixed his abode at Alba; and there he died, after a reign of about $3^{8}$ years, 12 of which he had retided at his new fettlement. He left a fon called Iulus; fo that between him and Sylvius lay the right of fucceeffion to the Latin throne; the latter being the fon, and the former the grandfon, of Æneas.

The Latins not thinking it their intereft to continue divided, as it were, into two flates, refolved to unite Alba and Lavinium into one fovereignty; and as Sylvius was born of Lavinia the daughter of Latinus, and had thereby an undoubted title to the kingdom of his har 1 Ir grandather, whereas the other was but the fon of a Both fateo ffranger, the Latins beftowed the crown on Sylvius; ${ }^{\text {united. }}$ and, to make Iulus fome amends, decreed to him the fovereign power in affairs of religion; a power which thenceforth continued in his family. Sylvius was fucceeded by 13 kings of the fame race, who for near 400 years reigned at Alba ; but we fcarce know any thing of them befides their names, and the years of their refpective reigns. Eneas Sylvius died, after a reign of 29 years. His fon, called alfo /Eneas Sylvius, governed Latium $3^{1}$ years. Latinus Sylvius, who fucceeded him, fwayed the fceptre for the fpace of 51 years. Alba reigned 39 ; Capetus, by Livy named Atys, 26 ; Capis, 28 ; and Capetus, 13 . Tiberinus, who fucceeded him, engaged in a war which proved fatal to him; for in a battle which was fought on the banks of the Albula, he was forced into that river and drowned. From lim the river took the name of Tiber, which it Origin of has borne ever fince. Agrippa fucceeded Tiberinus the name atter a reign of cight years; and left the throne, which Tiber. he had held 41 years, to Alladius; who reigned 19, and was fucceeded by Aventinus, who left his name to the hill Aventinus, where he was interred. Procac, who fuccceded him, and reigned 23 years, was the father of Numitor and Amulius; and at his death bequeathed the throne to his elder fon Nunitor. But $A$ mulius, who furpaffed his brother in courage and underflanding, drove him from the throne; and to fecure it to himielf, mardered Ageftus, Numitor's only fon, and conle-

Rome. cratca his daughter Rhea Sylvia to the workhip of Vefta, by which flue was obliged to perpetual virginity.
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A. ivertures of R hea Sylvia. But this precaution proved ineffectual; for as the Veftal was going to a neighbouring fpring to fetch water for the performance of a factifice to Mars, fhe was met and ravilhed by a man in a military habit, like that in which the god Mars is reprefented. Some authors think that this counterfeit Mars was a lover come thither by her appointment; others charge Amulius himfelf with ufing this violence to his niece, not fo much to gratify his luft, as to have a pretence to dellroy her.For ever after he caufed her to be carefully watched, till fhe was delivered of two fons; and then exaggerating her crime in an affembly of the people, he prevaild upon them to fentence he: to death, and to condemn the fruit of her criminal amour to be thrown into the Tiber. The fentence againft Rhea was, according to fome authors, changed by Amulius, at the requeft of his daughter Antho, into perpetual confinement, but executed againf the twins; who being laid in a wooden trough, and carried to the foot of Mount Palatine, were there turned adrift on the Tiber, which at that time overflowed its banks. But the rvind and ftream proved both fo favourable, that at the fall of the water the two infants were left fafe on the ftrand, and were there happily found by Fauftulus, the chief of the king's fhepherds, and fuckled by his wife Acca Laurentia, who for her diforderly life was called Lupa; and this probably gave rife to the fabulous miracle of their being nurfed by a wolf.

As Fauftulus was probably well acquainted with the birth of the twins, he took more than ordinary care of their education, and fent them to Gabii to be inftructed there in Greek literature. As they grew up, they appeared to have fomething great in their mien and air which commanded refpect; and the alcendant which they affurned over the other fhepherds made them dreadcd in the forefts, where they exercifed a fort of empire. A quarrel happening between the herdfmen of Amulius and thofe of Numitor, the two brothers took the part of the former againtt the latter; and fome blood being fhed in the fray, the adrerfe party, to be revenged on Romulus and Rerrus (for fo the twins were called), on the feftival of Lupercaiia, furprifed Remus, and carried him before Numitor, to be punihhed according to his deferts. But Numitor feeling himfelf touched in the prifoner's favour, aked him where he was born, and who were his parents. His anfwer immediately ftruck Numitor with a lively remembrance of his two grandfons; their age, which was about 18 years, agreed with the time when the two infants were expofed upon the Tiber; and there needed no more to change his anger into tendernefs.

In the mean time Romulus, eager to refcue his brother, and purfue thofe who had carried him off, was preparing to be revenged on them; but Fauftulus diffuaded him from it; and on that occafion, difclofing to biun his birth, awakened in his breaft fentiments worthy of his extration. He refolved, at ah adventures, to attempt the delivering of his mother and grandfather from opprefion. With this view he affembled the country people, over whom he had affumed a kind of fovereignty, and engaged them to come to the city on an appointed day, and enter it by different gates, provided with arms, which they were to conccal. While Romu-
lus was thus difpofing every thing for the execution of his delign, Numitor made the lime difcovery to Remus conceruing his parents, and the oppreffions they groaned under; which fo fired him, that he was ready to embark in any enterprife. But Numitor took care to moderate the tranfporis of his grandion, and only defired him to acquaint his brother with what he had heard from him, and to fend him to his houle. Romulus foon came, and was followed by Faufulus, who took with him the trough or fkiff in which the twins had been expofed, to fhow it to Numitor: but, as the fhepherd betrayed an air of concern and earneftnefs in his luoks, he was flopped at the gate of the city, led before Amulius, and examined concerning his burden. It was eafily known by its make and infeription, which was ftill legible; and therefore Fauftulus owned what it was, and confeffed that the twins were living; but, in order to gain time, pretended that they were feeding flocks in a remote defert. In the mean time, the ufurper's death being refolved on, Remus undertook to raife the city, and Romulus to invett the king"s palace. The country people came at the time appointed, and formed themfelves into companies each confifing of 100 men. They had no other enfigns but bundles of hay hanging upon long poles, which the Latins at that time called manipuli; and hence came the name of manipulares, originally given to troops raifed in the country. With this tumultuous army Romulus beict the avenues of the palace, forced the guard, and having hilled the tyrant, after he had reigned 42 years, reftored his grandfather Numitor to the throne.

Affairs being thus fettled at Alba, the two brothers, They reby the advice of Numitor, undertook the founding of a tolve to new colony. The king bettowed on them thole lands found a near the Tiber where they had been brought up, fup- colony. plied them with all manner of inftruments for breaking up ground, with flaves, and beafts of burden, and granted full liberty to his fubjects to join them. Hereupon moft of the 'Trojans, of whom there ftill remained 50 families in Auguftus's time, chofe to follow the fortune of Romulus and Remus, as did alfo the inhabitants of Pallantium and Saturnia, two frall towns. For the more feecty carrying on of the work, it was thought prorer to divide thofe who were to be cmployed in the building of the city into two companics, one under the command of Romulus, the other of Remus; but this divifion, which was defigned purely with a view to the public welfare, and that the two parties might work by way of emulation, gave birlh to two factions, and produced a jealoufy between the two brothers, which broke out when they came to choofe a place for the building of their new city ; for Remus was for the Aventine, and Romulus for the Palatine mount. Upon whicl2, the matter being referred to their grandfather, he advifed the contending parties to have recourfe to the gods, and to put an end to the difpute by augury, to which he was himfelf greatly addicted. The day appointed fur the ccremony being come, the brothers pofted themfelves each upon his hill ; and it was agreed, that whoever fthould fee the firft fight, or the greateit number, of vultures, fhould gain his caufe. After the two rivals had waited fome time for the appearance of a favourable omen, Romulus, before any had appeared, fent to acquaint his brother that he had feen fome vultures; but Remus, haviag ađually feen fix, while his brother's

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meñengers were yet on their way, halcned, on their arrival, 10 Alount Petatine, to examine the truth of what they fiad wa!d him. He had no fooner got thithor, than by an unespected good fortune twelve vuitures appeared to Romulas. Thefe he iamediately thowed to his brother; and, tranfpurted with joy, defised him to jadge himfelf of the truth of what his meflengers had told him. However, Remus difcovered the deceit; and, being told that Romulus had not feen the twelve valtures till after he bad feem fix, he inkiled on the time of his feeing them, and the other on the number of bird, he had feen. This widenced the breach between the two brothers; and, their paries being divided, while each man clpoufed the caule of his leader, the difpute grew fo warm, that, from words they came at leng:h to blows. The Thepherd Fauttulus, who was equally dear to both the brothers, endeavouring to part the conhatants, was, by an unknown hand, laid deud on the fpot. Some witers teil us, that Remus likenife lot his life in the fray; but the greator number place his deatin later, and fay that he was killed by one Fabius, for having, in derifion, leaped over the wall of the new city: but Livy fays, the more common report was, that Remus fell by the hand of his brocher.

Romulus, being now head of the colony, by having got the better of his brother's party in the late engage- ment, applied his thoughts wholly to the building of the city, which he propofed to call after his own name. He chofe Mount Palatine for its fituation, and performed all thofe ceremonies which the fuperftition of the Hetrurians had introduced. He firt offered facrifices to the gods, and ordered all the people to do the fame : and from that time decreed, that eagles fhould be the aufpices of his new cotony. After this, great fires were hindled bcfore their tents, and all the people leaped through the Bames to purify themflues. When this ceremony was over, they dug a trench round the foot where the affemblies of the people were afterwards held, and threw into it the firft-fruits of whatever they were allowed to make ufe of for food: every man of the colony was ordered to caft into the fame trench an handful of earth, brought either from his own or fome neighbouring country. The trench they called Miundus, that is, the world, and made it the centre round which the city was to be built. Then Romulus, yoking an ox and a cow to a pluugh, the coulter whereof was brafs, marked out, by a deep furrow, the whole compals of the city. Thefe two animals, the fymbols of marriage, by which cities are peopled, were afterwards flain upon the altar. All the people followed the plough, throwing inssards the clods of earth which the ploughfhare fometimes turned outwards. Wherever a gate was to be made, the plough was lifted up, and carried; and hence came the Latin word porta, " a gate," dcrived from the verb poriare, "to carry." As Mount Palatine food by iefelf, the whole was inclofed within the line made by the plough, which formed almoft the figure of a fquare; whence, by Dionyfius Ifalicarnaffenfis, it is called Koma शuadrata.

As to the exact year of the foundation of Rome, there is a great difagreement among hiftorians and chronologeis. Fabius Pictor, the mof ancient of all the Roman writers, places it in the end of the feventh Olympiad; that is, according to the computation of Ulier, in the
year of the world 3256 , of the flood 1600 , and $7+8$ Rome. before the Chrillian era. The Romans, if we may fo call them, began to build, as Plutarch and others m form us, on the 2 Itt of April ; which day was then ciliyfecrated to Pales, goddefs of the flepherd's; wherree the feltival of Pales, and that of the foundation of the ci $y$, were afterwards jointly culebrited at func.'

When Rume had received the ntmolt pertiection which At firt hut its poor and rude founder cound give it, it confilted of poor vitabsut 1000 houfes, or rather huts; and was, properlylage. fpeaking, a beggarly village, whercof the prineipal inhabitants followed the plowgh, being obtiged to et litrate with their own bands the ungrateful toil of a bar: ren country which they had fliared among themielves: Even the walls of Homulus's palace were made of rufhes, and covered with thatch. Ascvery one had cliofen his ground to build upon, without any regard to the regularity and beaty of the whole, the ftreets, if we may fo call them, were both crooked and narrow. In fhort, honve, till it was rebuilt after the burning of it by the Gauls, was rather a diforderly heap of huts, than a city built with any regularity or order.

As foon as the building of the city was finifhed, Ro-Rcm ${ }^{19}$ is mulus affembled the people, and defired them to choofe ele tece what kind of government they would obey. At that kings time monarchy was the unaninous voice of the Romans, and Romulus was elected king. Before he afcended the throne, however, he confulted the will of the gods by augury; and having received a favourable anfiver, it thence became an eftablifhed cuftom to have recourfe to augury before the raifing any one to the dignity of king, prieft, or any public employment. After this he applied himfelf to the eftablihment of good order and fubordination among his fubjects. He put on a habit of ditinction for himfelf, appointed 12 lictors to attend him as guards, divided his fubjects, who at this time confitted only of 33,000 men, into cririce, decurice, pairicians, plebeians, patrons, clients, \&xc. for an account of which, fee thefe articles as they occur in the order of the alphabet. After this he formed a fenate confifting of 100 perfons, chofen from among the patricians; and a guard of 300 young men called celcres, who attended the king, and fought either on foot or on horfeback as occafion required. The king's office at home wiis to take care of religions affairs, to be the guardian of laws and cuftoms; to decide the weightier caufes between man and man, referring thofe of fmaller moment to the fenate; to call together the fenators, and afiemble the people, firft delivering his own opinion concerning the affair he propofed, and then ratifying by his conlent what was agreed on by the majority. Abroad, and in the time of war, he was to command the army with abfolute authority, and to take care of the public money. The fenate were not only to be judges in matters of fmall importance, but to debate and refolve upon fuch public affairs as the king propofed, and to determine them by a plurality of voices. The people were allowed to create magiftrates, enact laws, and refolve upon any war which the king propofed; hut in all thefe things the confent of the fenate was neceffarv.

Romulus next procceded to fettle the icligions affais of his people. Many of the Trojan and Phrygian deities were added to thofe whom the Aborigines or Italim natives already worhipped. ITe cho'e priefls, inflituted feflivals, and laid the foundation of a regular.
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fyftem of religion ; after which, as his colony was ftill thinly peopled, he opened an afylum for fugitive flaves, homicides, outlaws, and debtors. Thefe, however, he did nut at firft receive within the walls, but appointed for their habitation the hill Saturnius, called afterwards Capitolinus, on which he crected a temple to a divinity of his own invention, whom he named the A/ylean god, under whofe protection all criminals were to live fecurely. But afterwards, when the city was enlarged, the afylum was inclofed within the walls, and thofe
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Rape of the Sabine wom then Romus had thus fettled every thing relating men wo- to his new colony, it was found that a fupply of women was wanting to perpetuate its duration. This occafioned fome difficulty; for the neighbouring nations rcfufed to give their daughters in marriage to fuch a crew of vagabonds as had fettled in Rome ; wherefore Romulus at laft refolved on the following expedient. By the advice of his grandfather Numitor, and with the confent of the fenate, he proclaimed a folemn feaft and public games in honour of the Equeftrian Neptune called Confus. This occafioned a great concourfe of people, who flocked from the adjacent parts to behold thefe pompous fhows, together with the new city. But, in the midft of the folemnity, the Romans, rulling in with their fwords drawn, feized all the young women, to the number of $68_{3}$, for whom Romulus chofe hufbands. Among all thofe who were thus feized, only one married woman, named Herfilie, was found ; and Romulus is faid to have kept her for himfelf.

This violence foon brought on a war with the neighbouring nations. Acron, king of Cænina, a city on the confines of Latium, having entered into a league with the inhabitants of Cruftuminum and Antemnex, invaded the Roman territories. Romulus marched againf them without delay, defeated the confederate army, kil. led their king in fingle combat, decreed himfelf a triumph, and confecrated the fpoils of Acron to Jupiter Feretrius, under the name of Opima Spolia. The city of Cænina was razed to the ground, and the inhabitants tranfplanted to Rome, where they were admitted to the privileges of citizens. The king then marched with one legion (confifting at this time of 3000 foot and 300 horfe) againft the Cruftumini and Antemnates, both of whom he defeated in battle, and tranfplanted the inha. bitants to Rome ; which being incapable of holding fuch a number, Romulus took in the hill Saturnius above mentioncd, on the top of which he built a citadel, committing the care of it to a noble Roman named Tarpeius. The citadel was furrounded on all fides with ramparts and towers, which equally commanded the city and country. From the foot of the hill Saturnius a wall was carried on quite to the Tiber, and a gate opened in it מamed Carmentalis, from Carmenta the mother of Evander, who either lived there, or had fome chapel or altar erceted to her.

Romulus had now become fo formidable to his neighbours, and had fo well eftablifthed his reputation for clemency, that feveral cities of Hetruria voluntarily fubmitted to him. Coclius, an Hetrurian general, led the troops under his command to Rome, and fettled on a hill near the city, which from him took the name of Mlount Calius. The Sabines, however, not in the leaft difmayed at this increafe of the Roman forces, fent a deputation to Romulus, desmanding reatitution of the young
women who had been carried off; and, upon his refus Romer fal, marched to Rome with an army of 25,000 foot and 1000 horfe, under the command of their king Titus Tatius. Romulus, having received fupplies from Nu-tvafion of mitor and from Hetruria, likewife took the field, with 20,000 foot and 800 horfe, with whom he feized an advantageous poft, and fortified himfelf fo ftrongly, that he could not be attacked. The Sabine monarch, perceiving the military fkill of Romulus, began to be apprehenfive of the event; but was extricated out of his difficulties by the treachery of Tarpeia daughter to the The citadel governor of the citadel, who agreed to betray that im-befieged. portant fortrefs to the enemy, on condition of being rewarded with the bracelets which the Sabines wore on their left arms. But when once they became mafters of this important place, they are faid to have crufhed Tarpeia under the weight of their bucklers, pretending that thus they difcharged their promife, as they wore their bucklers alfo on their left arms. The poffiffion of the citadel enabled the Sabines to carry on the war with more fuccefs; but, at laft, in a general engagement, they had the misfortune to be driven back into the citadel, whither they were purfued by the Romans, who expected to have retaken that important poft ; but the enemy, rolling down great ftones from the top of the hill, wounded Romulus on the head, fo that he was carried infenfible out of the field of battle, while, in the mean time, his troops were repulfed, and purfued to the very gates of Rome. However, the king foon recovering himfelf, encouraged his routed troops, and drove the enemy back into the citadel. But while the two nations were thus fiercely contending, the women, for whofe caufe the war had been commenced, undertook the office of mediators; and having obtained leave from the fenate, marched in a body to the camp of the Sabines, where they pleaded the caufe of their hufbands fo effectually, that a treaty of union between the two nations was fet on foot, and a peace was at laft concluded, on the following terms. I. That the two Pe 25 kings fhould refide and reign jointly at Rome. 2. That cluded, and the city fhould ftill, from Romulus, be called Rome, the iwo nabut the inhabitants ${ }^{2}$ uirites, a name till then peculiar tions unito the Sabines. 3. That the two nations fhould become one ; and that the Sabines ftiould be made free in Rome, and enjoy all the privileges of Roman citizens. As Rome was chiefly indebted for this increafe of her power and fplendor to the Sabine women, honourable privileges and marks of diftinction were allowed them. Every one was commanded to give way to them; in capital caufes they were exempted from the jurifdiction of the ordinary judges; and their children were allowed to wear a golden ball hanging from their necks, and a particular kind of rabe called pratexta, to diftinguifh them from the vulgar.

The two kings reigned with great harmony for the face of five years; during which time the only military exploit they accomplifhed was the reduction of the city of Cameria, at a fmall diftance from Rome. Four thoufand of the Camerini were tranfplanted to Rome, and a Koman colony fent to repeople Cameria; foon after which the Sabine king was murdered by the Lavinians, Tatius mur. on account of his granting protection to fome of hisdured. friends who had ravaged their territories. The Lavinians, fearing the refentment of Romulus, delivered up the affeftens into his hands; but he fent them back un-
punifhed,

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Kome punified, which gave occafion to fufpect that he was not difpleafed with the death of his colleague.

Soon after the death of Tatius, Rome was afficted with famine and peltilence, which encournged the Camerini to revolt ; but Romulus marching againft them fuddenly, defeated them with the lofs of 6000 men. After which he attacked the Fidenates, whofe city ftood about fire miles from Rome, took their capital, and made it a Roman colony. This drew upon him the refentment of the Veientes, a powerful nation in the neighbourhood, who claimed Fidenæ as within their jurifliction; but their forces being defeated in two engagements, and a great number of them taken prifoners, they were obliged to fue for peace. Romulus granted them a truce for 100 years, on condition that they delivered to him Ceven fmall towns on the Tiber, together with fome falt-pits near the mouth of that riyer, at 3 int 50 of their chief citizens as hoftages to Rome. The prifoners taken in this war were all fold for flaves.

The remaining part of the life of Romulus was fpent in making laws for the good of his people ; but towards the latter end of his reign, being elated with fuccess, he began to enlarge the bounds formerly fet to his prerogative, and to behave in an arbitrary manner. He paid no longer any regard to the voice of the fenate, but affembled them only for form's fake to ratify his commands. The fenate therefore confpired to deftroy him, and accomplifned their purpofe while he was reviewing his troops. A violent form of hail and thunder difperfed the army; and the fenators taking this opportunity, when they were left alone with the king, inSome writers tell us, that, the better to conceal the fact, they cut his body in pieces, each of them carrying away a part under his robe; after which they told the multitude, that their king was on a fudden furrounded by flame, and fnatched up into heaven. This Atratagem, however, did not fatisíy the foldiery, and violent difturbances were about to enfue, when Julius Proculus, a fenator of great diftinction, having affembled the curix, told them that Romulus had appeared to him, and enjoined him to acquaint the people, that their king was returned to the gods from whom he originally came, but that he would continue to be propitious to them under the name of $\overbrace{\text { uirinus; }}$ and to the truth of this ftory Julius fwore.

Romulus reigned, according to the common computation, 37 years: but fome hiftorians reduce the length of tis reign to little more than 17; it being very unlikely, as they obferve, that a prince of fuch an active fufion, took the government into their own hands. T'atius added another hundred to that body; and thefe 200 fenators divided themfelves into decuries or tens. Thefe decuries drew lots which fhould govern firft ; and the decury to whofe lot it feil enjoyed the fupreme authority for five days; yet in fuch a manner, that one perfon only of the governing decury had the enfigns of fovereignty at a time. To thefe another decury fucceeded, each of them fitting on the throne in his turn, \&c. But the people foon growing weary of fuch fre-

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quent change of mafters, obliged the fenate to refolve on the election of a king. The fenate referred the election to the people, and the people to the fenate, who at laft undertook the tafi. Some difficulties, however, occurred : the Romans did not choofe to be fubject to a Sabine; and the Sabines, as they had been fubject to Romulus after the death of Tatius, infifted that the king fhould be chofen out of their nation. At laft it was agreed, that the king thould be a Sabine, but that the Fomans fhould make the choice.

In confequence of this determination, the Romans Numa ${ }^{29}$ elected Numa Pompilius, an auftere philofopher, who Pompilius had married Tatia, the daughter of Tatius the late the fecond king. After the death of his wife, he gave himfelf en- king. tirely up to philofophy and fuperfition, wandering from folitude to iolitude, in fearch of facred woods and fountains, which gave the people a great opinion of his fanctity. The philofopher at firf rejected the offer of the kingdom; but being at lait prevailed upon, he fet out for Rome, where be was received with loud acclamations, and had his election unanimoufly confirmed by the fenate.

The reign of Nump is by no means memorable for battles or conquefts. He was averfe to war; and made it his fudy to loften the manners of the Romans, rathes than to exalt them to fuperiority over their neighbours. He difmificd the celeres, encouraged agriculture, and divided the citizens into dittinet bodies of tradefmen. This laft meafure be took on purpofe to abolifh the diftinction between Romans and Sabines, which had hitherto rent the city into two factions; and this effectually anfrered his end: for now all of each particular profeffion, whether Romans or Sabines, were obliged to allociate together, and had each their refpective courts and privileges. In this divifion the muficians beld the firt rank, becaufe they were employed in the offices of religion. The goldfmiths, carpenters, curriers, dyers, tailors, \&c. formed alfo diftinct communities ; and were allowed to make byelaws among themfelves, to have their own feftivals, particular facrifices, \&c.

Though Numa himfelf is faid by Plutarch to have had pretty juft notions of the Supreme Being, he neverthelefs added innumerable fuperftitions to thofe be found in Rome. He divided the minitters of religion into eight claffes, appointing to each their office with the greatef precifion; he erected a temple to Janus, the fymbol of prudence, which was to remain open in time of war, and to be thut in time of peace. Another temple was erected to Bona Fides; and he invented a new kind of deities called Dï Termini, or boundaries, which he caufed to be placed on the borders of the Roman ftate, and of each man's particular lands.-The laft reformation which Numa undertook, was that of the kalendar. Romulus had divided his year into ten months, which, according to Plutarch, had no certain or equal number of days; fome confititig of 20 , fome of $35,8 \&$. However, by other hiforians, we are informed that he allotted to March, May, Quintilis, and OAlober, 31 days; to April. June, Sextilis, November, and December 30 ; making in all 304 days. But Numa being better acquainted with the celeflinl motions, added to thefe the two months of January and February. To compofe thefe two months he added 50 d ys to the 304 ; and thus made the year anfwer to the courfe of

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$R$. me the moon. He then took fix more from the months that had even days; and added one day merely out of fuperftition, that the year might prove fortunate ; for the pagans looked upon even numbers as unlucky, but imagined odd numbers to be fortunate. Howevcr, he could make out no me:e than 28 for February, and therefore that month was always reckoned unlucky among the Romans. Befides this, he oulerved the difference between the folar and lanar year t, be II days; and to remedy the inequality, $h$ alled an intercalary month named Mercedinus or Morcedonius, of 22 days every two years: but as he knew alfo that the folar year confifted of 365 days 6 hours, he ordered that every fourth year the month IIercedinus fhould confift of 23 days. The care of thefe intercalations was left to the priefts, who left out or put in the intercalary day or month as they imagined it to be lucky or unlucky ; and by that means created fuch confufion, that the feltivals came in procels of time to be kept at a feafon quite oppofite to what they had been formerly.

Thefe are all the remarkable tranfactions of the reign of Numa, which is faid to have continued 43 years; though fome think that its duration could not be above 15 or 16. His death was followed by a thort interregnum ; after which Tullus Hoftilius, the fon or grandfon of the famous Herfilia, was unanimoufly chofen king. Being of a bold and fiery temper, he did not long continue to imitate his peaceful predeceflor. The Albans, indeed, foon gave him an opportunity of exercifing his martial difpofition. Colius, or, as he is called by Li vy, Chuilius, who was at the head of the Alban republic, jealous of the growing greatnefs of Rome, privately commiffioned fome of the moft indigent of his fubjects to wafte the Roman territory ; in confequence of which, a Roman army entered the territories of Alba, engaged the robbers, killed many, and took a great number prifoners. A war foon commenced, in confequence of this, between the two nations; but when the armies came in fight of each other, their ardour cooled, neither of them feeming inclined to come to an engagement. This inaction raifed a great difcontent in the Alban army againft Cluilius; infomuch that he came to a refolution of giving battle to the Romans next morning, or of forming their trenches if they flould decline it. Next morning, however, he w2s found dead in his bed; affer which the Albans chofe in his ftcad one Mettus Fuffetius, a man remarkable for his hatred to the Roman name, as Cluiliws had been before him. Fuffetius, however, continued in the fame fate of inactivity as his predeceffor, until he received certain intelligence that the Veientes and Fidenates had refolved to del? roy both Romans and Albans when they floould be weakened by a battle. Fuffetius then tefulved to come to an accommodation with the Rom:ns; ard, having obtained a conference with Tulluc, both feemed equally dcfirous of av illing the calamities of war. But, in order to eftablin the peace on the molt perfect foundation, Tullus propofed that all, or at leaft the chief families in Alba, fly uld remove to Rume; or, in cafe they were unwilling to leave their native city, that one commen council flould be effabli I cd to govern both cities, under the direction of one the two forercigns. Fuffe fus took afide thofe who attended him, to confult with them about this prof of.l; but they, though willing to come to an accommodation with Rome, abfolutcly refufed to
leave Alba. The only difficulty remaining, then, was to fettle which city fhould have the fuperioity; and, as this could not be determined by argument, Cullus propofed to determine it by fingle combat betwixt himfelf and Fuffetius. This propolal, however, the Alban general thought proper to decline; and it was at laft agreed, that three champions fhould be chofen out of each camp to decide the difference. This produced the famous combat between the Horatii and Curiatii, by which the fovereignty was decided in favour of Rome. See Horatil.

Tullus now refolved to call the Fidenates to an account for their treacherous behaviour during the war with Alba, and therefore cited them to appear before the fenate; but they, confcious of their guilt, refufed to appear, and took up arms in conjunction with the Veientes. Fuffctius, in obedience to the orders of Tullus, joined him with the Alban troops; but the day before the battle, he acquainted the principal officers with his defign, which was to ftand neuter till fortune had declared for one fide, and then to join with the conqueror. This defign being approved, Fuffetius, during the engagement, retired with his forces to a neighbouring eminence. Tullus perceived his treachery; but dififmbling his uneafinefs, told his men that Fuffetius had poffeffed himfelf of that hill by his order, and that he was from thence to rufh down upon the enemy. The Veientes, in the mean time, who had expected that Fuffetius was to join them, were difmayed, and the Romans obtained the victory. After the battle, Tullus returned privately to Rome in the night; and having confulted with the fenate about the treachery of Fuffetius, returned to the camp by break of day. He then detached Horatius, who had conquered the three Curiatii, with a chofen body of horfe and foot, to demolifh Alba, as had been concerted at Rome. In the mean time, he commanded both the Roman and Alban troops to attend him unarmed, but gave private orders to the Romans to bring their fivords concealed under their garments. When they were affembled, he laid open the treachery of Fuffetius, and ordered him to be torn in pieces by horfes. His accomplices were all pa do detants of Alba carried to Rome, where they were admitted to the privileges of citizens, and fome of them even admitted to the fenate.

Tullus now turned his arms againft Fidenre, which he again reduced under the Roman yoke; and took Miedulia, a ftrong city of the Latins; after which he waged a fucceffful war with the Sabines, whofe union with the Romans feems to have ceafed with the time of Numa. This was the laft of his martial exploits; after which we hear no more of him, but that he became extremely fupertitious in his advanced years, giving ear to many foolifh ftories, as that it rained flones, that miraculous woices were heard from heaven, \&ic. and for this he appointed nine days expiatory facrifices; whence it became a cuffom to appoint nine days to appeafe the wrath of the gods as often as men were alarmed with prodigies. As to the manner of his death authors are not agrecd. Some tell us that he was kill- 1 )eath of ad by lightning, together with his wife, children, and Tulus, his whole family; while others are of opinion that he who is fucwas murdered with his wife and children by Arcus ceeded by Martius who fucceeded him. He died after a reign of Marturs. ointiser, and the inh. bitants traniforted to Rome. of

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$3 \hat{3}$ years, leaving the city greatly increafed, but the domimions much the fame as they had been in the time of Romulus.

Afier a fhort interregnum, Ancus Mintias, the grandion of Numa by his daughter Pompilia an:d Marcus his relation, was tnamionutly chofen by the peo le and fenate. Though naturally inclined to war, lee began his reign with attempting to reftore the cercmonies of Nama, which had been neglected under Tu: ius I Iodtilius. He endeavoured alfo to draw the attention of his people to hurbandry and the praceful at!s; advining them to lay afide all forts of violence, and to return to their former employments. This $g$ ined him the affections of his lubjects, but brought upen him the contempt of the neighbouring nations. The Latins pre-
34 teading that their treaty with tive was expired, maxie Itis warlike inrsads into the Roman territuries. Alecus, afuer uhing explouts the ceremonies dirceted by Numa, tork thic i.. is with an 2nd death. army confuling entirely of new-levicd trun?, and reduced the cities of Pulitorium, Tillena, and Ficana, tranfplanting the inhabitants to Fome. A tuew colony of L-hins repeophed Politolium; but Ancus retook the place next year, and ce tirely domolihacd it. He then laid isege to Medulia; which, though it had been ruined by Tullus Hoililias, was now dromger than ever. It fubmitted after a fiege of four years, when Ancus found himfelf obliged to undertake a fecond expecuition againft Ficina, which he lad before reduced, as we have aircady rolated; and it was not without the utmolt dififully that he reduced it a fecond time. Afier this the defeated the Latins in a pitched battle; vanquilbed the Fidenates, Vcientes, and Sabines; and having taken in the hill Janiculum to be included within the wals, and built the port of O:ia, he died in the 2 fth year of his reion.

Ancus 'Tar'ius left two fons behind him, one an infant, and the other about is years of age. Both of the fe tae put untre the tuition of Tarquin, the fon of a rich merchant in Corinth, who had fled from that city to fecure his wealh from Cypfelus tyrant of the place. He fetted in Tarquini, one of the principal cities in Fetruris; but finding that he could not there altain to any of t'e privcipal polts in the city on account of his foreign extrac ion, he removed 10 Pume, where he had been gralua -y raifed to the rank of patrician and fenator. The death of Ancus Martius gave him an opportunity of affuming the regal dignty, and letting afide his pupils; and in the beginning of his reign he took care to lirengthen his party in the fenate by adding another hundred to that body. Thefe were called fonatores minorum gentium, becaile they were chofen out of the plebeians; however, they had the fame antthority in the fenate as the others, and their childicn
the fon of Aıuns, Tirquin's brother; from whence he took the name of C-liminus, which he tranfmitted to his puricrity. Corniculum, another city of Latium, was taken by form, and reduced to afhes. This progrefs having gratly alarmed the Intins, feveral of them joined their forces in order to oppofe fuch a formidable enemy; but being defuated in a bluody battle near 1 idenx, they were obliged to enter into an alliance with home; upon which the Latins having held a national conference, entered into a league with the Hetrurian:, and again took the field with a very numerous army: But 'Parquin, having defeated the confeder. e armics in two very bloody battles, obliged the Latin citie to fubmit to a kind of depandence on liome; and, having entered the city in tiiumph, built the circus raximes with the fpuils which lie lad taken foom the encany.

The war with the Latins was fcarccly ended, when another commenced with Hetruria. This was accounte! the moft powerful nation in Italy, and was at that time divided into 12 tribes or lucomonies. Thefe appinied a national afiembly, in which was decreed that: the whole force of Hetruria lhou'd be employed againit Tarquin; and if any city prefumed only to ftand neuter, it thould be for ever cut off from the national alliance. 'Thus a great army was raifed, with which they ravaged the Ruman territory, and took Fidenæ by the treacliery of fome of its inhabitants. Tarquin, not being in a condition to oppofe them at firft, was obliged to fubmit to the lofs occafioned by thei- ravages for a whole year; after which be took the field with all the forces he could raife. The Roman army was divided into two bodies, one under the king himfelf, the other commanded by his nephew Collatinus. The latter, having divided his forces in order to plunder the country, was defeated ; but Tarquin, in two engagements vanquihed the army which oppofed him. He then marched againft Fidenæ, where he gained a third battle; after which he took the city. Such of the citizens as were fufpected to have been concerned in betraying it to the enemy were whipped to death; the reft were fent into banilhment, and their lands divided by lot among the foman foldiers. Tarquin now haftened to oppofe the new army of the IIctrurians before their forces could be properly collected; and having come up with them at Erctum, a place about io miles from Rome, defeated them with great Ilauglater, for which victory be was decreed a triumph by the fenate; while the enemy, difheartened by fo many misfortuncs, were glad to fue for peace; which Tarquin readily granted, upon the fole condition of their owning his fuperiority over them. In Et.fis sf compliance with this, the Hetrurians fent him all the reyaite fett enfigns of royalty which were in ufe among them, viz. Hem by the a ciown of gold, a throne of ivory, a feeptre with an erigle on the top of it, a tunic embroidered with gild, and adorned with figures of palm branches, toKether with a pur le robe enriched with flowers of feveral colaurs. Tarquin, hotvever, would not wear thele magnificent on monts till fuch time as the fenate and people had confented to it by an exprefs law: Ile then applied the regalia to the decoration of his triumph, and never atterwards laid them afide. In this triumph lie appeared in a gilt chariot, drawn by four hor!es, clothed in a purple robe, and a tunc cmbruidered with gold, a crown on his head, and a fceptre

## $R$ O M [ 124 ] $\quad$ R O M

Rome. in his hand, attended by 12 liftors with their axes and fafces,

Tarquin, having nov obtained fome refpite from war, applied himplelf to the beautifying and ornamenting the city. He built the walls of Rome with hewn fone, and erected thofe famous common fewers which have defervedly been accounted one of the wonders of the world. Rome at this time contained four hills within its compals, viz. the Palatimus, Tarpeius, Quirinalis, and Cuelius. In the valleys between thefe hills, the rain-water and fprings uniting, formed great pools which laid under water the ftrects and public places. The mud likewife made the way impaffable, infected the air, and rendered the city unhealthy. Tarquin undertook to free the city from this nuifance, by conveying off thefe waters by fubterraneous channels into the Tiber. In doing this, it was neceflary to cut through hills and rocks a channel large enough for a navigable fream, and covered with arches ftrong ewough to bear the weight of houfes, which were frequently built upon them, and ftood as firm as on the moft folid foundations. All thefe arches were made of hard fone, and neither trouble nor expence were fared to make the work durable. Their height and breadth were fo confiderabie, that a cart loaded with hay could eafily pafs through them under ground. The expence of confructing thefe fewers was never fo thoroughly underfood as when it became neceflary to repair them; for then the cenfors gave no lefs than 1000 talents to the perfon appointed for this purpofe.

Befides thefe great works, Tarquin adorned the forum, furrounding it with galleries in which were fhops for tradefmen, and building temples in it for the youth of both fexes, and halls for the adminiftration of public juftice. He next engaged in a war with the Sabines, on pretence that they had affilted the Hetrurians. Both armies took the field, and came to an engagement on the confines of Sabinia, without any confiderable advantage on either fide; neither was any thing of confequence done during the whole campaign. Tarquin then, confidering with himfelf that the Roman forces were very deficient in cavalry, refolved to add fome new bodies of knights to thofe already inftituted by Romulus. But this project met with great oppofition from the fuperftitious augurs, as the original divifion of horfe into three bodies had been determined by auguries; and Actius Nevius, the chief of
time of Augufus; the razor and Hint were buried near Rose. 1 it, under an altar, at which witneffes were afterwards fworn in civil caulcs.

This adventure, whatever was the truth of it, caufed. Tarquin to abandon his defign of increafing the number of bodies of horfe, and content himfelf with augmentis ing the number in each body: He then renewed the: war with the Sabines, ravaged their country, defeated thera in three pitched battles, obliging them at laft to fubmit to him and put bim in poffeftion of their country. In the decline of life be employed himfelf in further decorating the city, building temples, \&cc. He was affaf- Affalinated finated in his palace, in the 80 th year of his age, by the by the fons fons of Ancus Martius, whom he had originally de- pf Ancus prived of the kingdom.

After the death of Tarquin I. his wife Tanaquil preferved the kingdom to her fon-in-law Servius Tullius, by artfully giving out that the king was only flunned, and would foon recover; upon which the fons of Ancus went voluntarily into baniflament. The fecond day after his deceafe, Servius Tullius heard caufes from the throne in the royal robes and attended by the lictors; but as he pretended only to fupply the king's place till he fhould recover, and thought it incumbent on him to revenge the wicked attempt upon his life, he fummoned the fons of Ancus to appear before his tribunal; and on their non-appearance, caufed them to be declared infamous, and their eftates to be confifcated, After he had thus managed manners for fome time in Servius 4 r fuch a manner as to engage the affections of the people, Tillius fucthe death of Tarquin was publified as a thing that eeeds. had newly happened, and Servius Tullius affimed the enfigns of royalty, having none to diffute the honour with him.

The new king fhowed himfelf every way worthy of the throne. No fooner were the Hetrurians informed of Tarquin's death, than they fhook off the yoke; but Servius quickly reduced them to obedience, depriving them of their lands, which he fhared among the poor Roman citizens who had none. For this he was decreed a triumph by the people, in fpite of the oppofition of the fenate, who could never be brought to approve of his election to the kingdom, though he was foon after legally chofen by the tribes.

Afier Servius had obtained the fanction of the popular voice, he marched a fecond time againft the revolted Hetrurians; and having again vanquifhed them, was decreed another triumph. He then applied him-Enlarges felf to the enlarging and adorning the city. To the the cily, hills Palatinus, Tarpeius, Quirinalis, Coelius, and Aven-and adds a tinus, he added the Efquilinus and Viminalis, fixing tourth tribe his own palace on the Efquilinus, in order to draw in- ready inhabitants thither. He likewife added a fourth tribe, ftruted. which he called Tribus Efquilina, to thofe inftituted by Romulus. He divided alfo the whole Roman territory into diftinct tribes, commanding that there flould be at leaft one place of refuge in each tribe, fituated on a rifing ground, and ftrong enough to fecure the effects of the peafants in cale of a fudden alarm. Thefe ftrong-lolds he called pagi, that is, "villages;" and commanded that each of them fhould have their peculiar temple, tutelary god, and magiffrates. Each of them had likewife their peculiar feftival, called paganalia; when every perfon was to pay into the hands of thofe who prefided at the facrifices a piece of money,

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Rome. themen of one kind, the women of another, and the children of a third. By this means an exact computation was made of the men, women, and children, in each tribe.

In the mean time, his two wards, Lucius Tarquinius and Arunx, the grandchildren of Tarquin, being grown up, in order to focure their fidelity, he married them to his two daughters. And though the elder of thefe daughters, who was of a mild and tractable difpofition, refembled in character the younger of his pupils, as the elder of his pupils did the younger of his daughters, who was of a vielent and vicious temper, yet he thought it advifable to give his elder daughter to Tarquin, and the younger to Arunx; for by that means he matched them according to their ages, and at the fame time hoped that the elder Tullia's fweet difpofition would temper Tarquin's impetuofity, and the younger Tullia's vivacity roufe the indolence of Arunx.

During the public rejoicing for this donble marriage, the twelve lucumonies of Hetruria uniting their forces, attempted to thake off the Roman yoke; but were in feveral battles defeated by Servius, and obliged to fubmit to him on the fame conditions on which they had fubmitted to his predeceffor. For this fuccefs Servius was honoured with a third triumph.

The king being thus difengaged from a troublefome war, returned to the purfuit of his political fchemes; and put in execntion that mafterpiece of policy which Rome made ufe of ever after, and which cftablifhed a perpetual order and regularity in all the members of the ftate, with refpect to wars, to the public revenues, and the fuffrages of the comitia. The public fupplies had hitherto been raifed upon the people at fo much a head, without any diftinction of rich and poor whence it likewife followed, that when levies were made for the war, the rich and poor were equally obliged to take the field, according to the order of their tribe; and as they all ferved at their own expence, the poorer fort could hardly bear the charges of a campaign. Pefides, as the moft indigent of the people faw themfelves burdened with the fame taxes as the rich, they pretended to an equal authority in the comitia: fo that the election of kings and magiltrates, the making of peace or war, and the judging of criminals, were given up into the hands of a populace who were eafily corrupted, and had nothing to lofe. Servius formed a project to remedy thefe evils, and put it in execution, by enacting a law, enjoining all the Roman citizens to bring in an account in writing of their own names and ages, and of thofe of their fathers, wives, and children. By the fame law, all heads of families were commanded to deliver in upon oath a juft eftimate of their effects, and to add to it the places of their abode, whether in town or country. Whosver did not bring in an account of his effects, was to be deprived of his eftate, to be beat with rods, and publicly fold for a flave. Servius, from thefe particular accounts, which might be pretty well relied on, undertook to eafe the poor by burdening the rich, and at the fame time to pleafe the latter by increafing their power.
His divifin To this end, he divided the Roman people into fix of the peo- claffes : the firf clafs confifted of thofe whofe eftates ple into cla Itcs.
ing ufed by the Greeks; and the latter by the Latins. Rome. This clafs was fubdivided into 80 centuries, or companies of foot. To thefe Servius joined 18 centuries of Roman knigbts, who fought on horfeback; and appointed this confiderable body of horfemen to be at the head of the firlt class, becaule the eftates of thefe knights, without all doubt, exceeded the fum neceffary to be admitted into it. However, the public fupplied them with holfes; for which a tax was laid upon widows, who were exempt from all other tributes. This firt clafs, including infantry and cavalry, confitied of 99 centuries. The fecond clafs comprehended thoie whofe eftates were valued at 57,00 drachme, or 75,000 afes of brafs. It was fubdivided into 20 centuries, all foot. To thefe were added two centuries of carpen. ters, fmiths, and other artificers. In the third clafs were thofe who were efteemed worth 5000 drachme, or 50,000 afes. This clafs was fubdivided into 20 centuries. The fourth clals was of thofe whofe effects were rated at the value of 500 drachmæ, or 25,000 afes, and was divided into 25 centuries; to which were added two other centuries of trumpets and blowers of the horn, who fupplied the whole army with this martial mufic. The fifth clafs included thole only whofe whole fubitance did not amount to more than 1250 drachmæ, or 12,500 afes; and this clafs was divided into 30 centuries. The fixth clafs comprehended all. thofe who were not worth fo much as thofe of the firin clafs: they exceeded in number any other clafs, but neverthelefs were reckoned but as one century.

The king drew from thefe regulations all the advantages he had expected. Levies for the army were. no longer raifed by tribes, nor were taxes laid at fo much a-head as formerly, but all was levied by centuries. When, for inftance, an army of $20 ; 000$ men, or a large fupply of money, was wanted for the war, each century furnifhed its quota both of men and money: fo that the firft clals, which contained more centuries, though fewer men, than all the others together, farnifhe.d more men and more money for the public fervice than the whole Roman fate befides. And by this means the Roman armies conbited for the molt part of the rich citizens of Rome; who, as they had lands and effects to defend, fought with more refolution, while their riches enabled them to bear the expence of a campaign. As it was but juft the king fhould make the firlt clafs amends for the weight laid on it, he gave it almoft the whole authority in public affairs; changing the comitia by curix, in which every man gave his vote, into comitia by centuries, in which the majority was not reckoned by fingle perfons, but by centuries, how few foever there might be in a century. Hence the firt clafs, which contained more centuries than the other five taken together, had every thing at its difpofal. The votes of this clals were firt taken; and if the 98 centuries happened to agree, or only 97 of them, the affair was determined; becaufe thefe made the majority of the 193 centuries which compofed the fix claffes. If they difagreed, then the fecond, the third, and the other claffes in their order, were called to vote, though there was very feldom any occafion to go fo low as the fourth clafs for a majority of votes; fo that by this good order Servius brought the affairs of the fate to be determined by the judgement of the moll coaficerable.

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{lll}126\end{array}\right] \quad \mathrm{R} O \quad \mathrm{M}$

Kome. $\xrightarrow{\longrightarrow}$ 45 The cenfus and haArum.
confiderable citizens, who underftood the public intereft much better than the blind multitude, liable to be impofed upon, and eafily corrupted.

And now the people bcing thus divided into feveral orders, according to the cenfus or valuation of their eitates, Servius refolved to folemnize this prudent regulation by fome public act of religion, that it might be the more refpected and the more latting. Accordingly, all the citizens were commanded to appear, on a day appointed, in the Campus Martius, which was a large plain, lying between the city and the Tiber, formerly confecrated by Romulus to the god Mars. Here the centuries being drawn up in battalia, a folemn luftration or expiatory facrifice was performed in the name of all the people. The facrifice confifted of a fow, a theep, and a bull, whence it took the name of fuovctaurizia. The whole ceremony wa callcd luftrum, à luendo; that is, from paying, expiating, clearing, or perhaps from the goddefs Lua, who prefided over expiations, and to whom Servius had dedicated a temple. This wife king confidering, that in the fpace of five years there might be fuch alterations in the fortunes of private perfons as to entitle fome to be raifed to an higher clafs, and reduce others to a lower, enjoined that the cenfus fhould be renewed crery five years. As the cenfus was ulually cloled by the luf. trum, the Romans henceforth began to compute time by luitrums, each luftrum containing the face of five years. However, the luitrums were not always regularly obferved, but often put off, though the cenfus had been made in the fifth year. Some writers are of opinion, that Servius at this time coined the firf money that had ever appeared at Rome; and add, that the circumftances of the luftrum probably led him to ftamp the figures of the animals there flain on pieces of brafs of a certain weight.

The government of the city being thus eftablifhed in fo regular a manner, Servius, touched with compaffion for thofe whom the misfortunes of an unfuccefsful war had reduced to flavery, thought that fuch of them as had by long and faithful fervices delerved and obtained their freedom, were much more worthy of being made Roman citizens, than untractable vagabonds from foreign countries, who were admitted without diltinction. He therefore gave the freedmen their choice, either to return to their own country, or continue at Rome. Thofe who chofe to continue there, he divided into four tribes, and fettled them within the city; and though they were diffinguifhed from the plebeians by their old name of $l i$ berti, or freedmen, yet they enjoyed all the privileges of free citizens. The fenate took officnce at the regard which the king fhowed to fuch mean people, who had but lately fhaken off their fetters; but Servius, by a moft humane and judicious difcourfe, entirely appeafed the fathers, who paffed his inftitution into a law, which fubfitted ever after.

The wife king, having thus eftablifhed order among the people, undertook at lat to reform the royal power itfelf; his equity, which was the main fpring of all his refolutions, leading him to act contrary to his own intereft, and to facrifice one half of the royal authority to the publie good. His predeceffors hadreferved to themfelves the cognizance of all caufes both public and private ; but Serrius, finding the duties of his office too much for one man to difcharge well, committed the cognizance of or-
dinary fuits to the finate, and referved that only of fate. crimes to himfelf.

All things being now regulated at home, both in the city and country, Servius turned his thoughts abroau, E do atta hours and formed a fcheme for attaching the Sabines and Lid-the Sabines tius to the Romans, by fuch focial ties as fhould teand Latins ftreng thened by religion. He fummoned the Latin and to the RoSabine cities to lend their deputies to Rome, to confult about an affiin of great imporiance. When they were come, he propofed to them the building of a temple in honour of Diana, where the Latins and Sabines hould meet once a year, and join with the Romans in oftering facrifices to that goddels; that this fellival would be followed by a council, in which all difputes between the cities thould be amicably determined; that there proper meafures thould be taken to purfue their common interelt; and, laftly, in oider to draw the common people thither, a fair fhould be kept, at which every one might furnilh himfelf with what he wanted. The king's defign met with no oppofition: the deputies only added to it, that the temple fhould be an inviolable afylum for the united nations; and that all the cities fhould contribute towards the expence of building it. It being left to the king to choole a proper place for it, he pi.ched upon the Aventine hill, where the temple was built, and affemblies annually held in it. The laws which were to be obferved in thefe general meelings, were engraved on a pillar of brais, and were to be icen in Auguftus's time, in the Latin tongue, but in Greek characters.

But now Servius was grown old; and the ambition of wi. ked inTarquin his fon-in-law revived in proportion as the king triguev of adranced in years. His wife ufed her utmoft endeavours ter and fon. to check the rafhnefs and fury of her hufband, and to ter and divert him from all criminal enterprites; thile her younger filter was ever inftigating Arans, wo placd all his happinefs in a private life, to ti.e nowlt vi a ous attempts. She was continually lamenting her ite in being tied to fuch an indolent hufband, and wiaking fhe had either continued unmarried, or were become a widow. Similitude of temper and manners, formed, by de. grees, a great intimacy between her and Tarquin. At length the propofed nothing lefs to him than the murdering of her father, fister, and hubband, that they two might meet and afcend the throne together. Soon after, they paved their way to an inceltuous marriage, he by poifoning his wife, and the her huiband; and then had the affurance to afk the king's and queen's confent to their marriage. Servius and 'Tarquinia, though they did not give it, were filent, through too much induigence to a daughter in whom now was their only hope of pofterity. But thefe criminal nuptials ware only the firlt itep towards a yet greater iniquity. The wicked ambition of the new-married couple firf fhowed itfelf againt the king : for they publicly declared, that the crown belonged to them ; that Servius was an ufurper, who, being appointed tutor to 'Tarquin's grandchildren, had deprived his pupils of their inheritance; that it was high time for an old man, who was but little able to fupport the weight of public affairs, to give place to a prince who was of a mature age, \&c.

The patricians, whom Servius had taken great pleafure in humbling during the whole time of his reign, were cafily gaincd over to Tarquin's party; and, by the

## R $O$ M <br> $\left[\begin{array}{ll}127\end{array}\right] \quad \mathrm{R}$ O M

help of money, many of the poorer cilizens were allo brought over to his intereft. 'The king, being informed of their treafonable practices, endeavoured to diffuade his daughter and fon-in-law from fuch proceedings, which might ond in their ruin ; and exhorted them to wait for the kingdom till his death. But they, defpiing his counfels and paternal admonitions, refolved to lay their claina before the fenate; which Servius was obliged to fummon: fo that the affair came to a formal procefs. Tarquin reproached his father-in-law with having afcended the throne without a previous interregnum ; and with having bought the votes of the people, and defipifed the fuffrages of the fenate. He then urged his own right of inheritance to the crown, and injultice of Servius, who, being or.y his guardian, had kept pofeffion of it, when he himfelf was of an age to govern. Servius anfwered, that he had been lawfully elected by the people; and that, if there could be an hereditary right to the kingdom, the fons of Ancus had a much better one than the grandfons of the late king, who muft himfelf have been an ufurper. He then referred the whole to an affembly of the people; which being immediattly proclaimed all over the city, the forum was foon filled; and Servius harangued the multitude in fuch a mamer as gained all their affections. They all cricd out with one voice, Let Servius reign; let him continue to make the Romans happy. Amidit their confufed clamours, thele words were likewife heard: Let Tarquin perifb; let him die ; let us kill him. This language fightened him fo, that he retired to his houfe in great hatte; while the king was conducted back to his palace with the acclamations of the people.

The ill fuccefs of this attempt cooled Tarquin's ardent defire of reigning ; but his ambition made him act a new part. He undertook to regain the favour of his father-in-law by careffes, fubmiffions, and proteflations of a fincere regard and affection for him; infomuch that the king, who judged of the policy of others from his own, was fincerely reconciled to him, and tranquillity re-eftablifhed in the roval family. But it was not long ere Tarquin, roufed by the continual reproaches of his wife, began to renew his intrigues among the fenators; of whom he had no fooner gained a confiderable party, than he clothed himfelf in the royal robes, and caufing the fafces to be carried before him by fome of his domentics, croffed the Roman forum, enter-d the temple where the fenate ufed to meet, and feated himfelf on the thone. Such of the fenators as were in the faction he found already in their places (for he had given them private notice to be there early) ; and the reff, being fummoned to affemble in Tarquin's name, made what hafte they could to the appointed place, thinking that Servius was dead, fince Tarquin aflumed the title and functions of king. When they were all affembled, Tarquin made a long fpeech, reviling his father in-law, and reseating the i. vectives agnaint him, which he had fo ofien uttered, calling him a flave, an ufurper, a favourer of the populace, and an enemy to the fenate and patricians. When he was yet fpeaking, Servis arrived; and, rathly giving way to the motions of his courage, without conifiderirg his fremth, drew near the throne, to pull Tarquin doun from it. This raifed a great noife in the affembly, wich drew the people into the temple; hut nobody vel tured to part the two rivals. Tarquin, therefore, bsing more ffrong
and vigorous, feized the old man by the waift, and Rome. hurrying him through the temple, threw him down from the top of the fleps into the forum. The king, who was grievoufly wounded, railed himfelf up with fome difticully: but all his friends had abandoned him ; only two or three of the people, touched with compaffion, lent hins their arms to conduct him to his palace.
As they were leading him on flowly, the cruel Tullia appeared in the forum, whither the had hattened in her chariot on the firft report of what had paffed in the fenate. She found her hufband on the top of the iteps of the temple; and, tranfported with joy, was the firt who faluted him king. The example was immediately followed by the fenators of Tarquin's party. Nor was this enough for the unnatural daughter: fhe took afide her hufband, and fuggefted to him, that he would never be fife fo long as the ufurper of his crown was alive. Hereupon Tarquin inftantly difpatched fome Servus of his domeftics to take away the remains of the un-Tullius furtunate king's life. The orders for the wicked par- ${ }^{\text {murdered. }}$ nicide were no fooncr given than Tullia mounted her chariot again, with an air of triumph, to return home. The way to her houfe was through a narrow flreet, called vicus cyprius, or the good fireet. There the affaffins had left the king's body, which was atill panting. At this fight, the chariotcer, ftruck with horror, checked his hories, and made a fop: but Tullia forced him to goon; and the blood of the father is faid to have dyed the wheels of the chariot, and even the clothes of the inhuman daughter, whence the freet was called ever after vicus fceleratus.
The new king proved a moft defpotic and cruel ty. Tarquin II. rant; receiving, in the very beginning of his reign, the a cruel tyfurname of proud, on account of his capricious humour ${ }^{\text {raut. }}$ and haughty behaviour. All controverfies whatever were decided by himfelf and his friends; and he banifhed, fined, and even executed, whom he pleafed. The cenfus and luftrum, the divifion of citizens into claffes and centuries, were abolifhed; and all kinds of affemblics, even thofe for amufement and recreation, were prohibited, both in town and country. Nay, to fuch a height did Tarquin carry his infolence and tyranny, that the molt virtuous of the fenators went into voluntary banifhment ; while many of thofe who remained were cut off on various pretences, that the king might enjoy their eflates.

Tarquin could not but be fenfible of the extreme danger in which he flood by lofing the affections of his people in fuch a manner. He therefore provided a fufficient number of foldiers, by way of guard, to prevent atlempts upon his perfon; and gave his daughter ts Oetavius Mamilius, one of the moft confiderable men among the Lati s, in order to flrengthen his intereft by this foreign alliance, in cafe of a reroli among his fulbjects. Namilius accordingly procured many friends to his father in-law, but he had like to have lotl them again by his hauglity behaviour. He had defired the Latins to call a national council at 「erentinum, where he would meet them on a day appointed by himflf. The Latins accordingly met ; but after waiting for feveral hours, 'Tarquin did not appear. On this, on= Turnus Herdonius, an enterpriling and eloquent man, who hated Targuin, and was jealous of Mamilizus, made a fyeech, in which lie inveighed againft the haughty belaviour of Tarquin, fet forth the contempt whith he

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liad put upon the Latins, and concluded with defiring the council to break up and return home without taking any further notice of him. Mamilius, however, prevailed upon them to return the day following; when Targuin made his appearance, and told the affembly that his defign in calling them together was to claim, his right of commanding the Latin armies, which he faid was derived from his grandfather, but which he defired to be confirmed to him by them. Thefe words were fcarce out of his mouth, when Herdonius, rifing up, entered into a detail of 'Tarquin's tyranny and arbitrary behaviour at Rome, which, he faid, the Latins would foon feel in an equal degree, if they complied with Tarquin's demand. To this fpeech the king made no reply at that time, but promifed to anfiver him next day. In the mean time, however, he bribed the domeftics of Herdonius to admit among his baggage a large quantity of arms: and then, telling the Latins that Herdonus's oppofition proceeded only from Tarquin's having refured him his daughter in marriage, accufed him of having laid a plot to cut off all the deputies there prefent, and to ufurp a juridiction over the Latin cities; as a proof of which he appealed to the arms hid among the haggage of Herdonius. The accufed, confcious of his innocence, defired that his baggage might be fearched; which being accordingly done, and the arms found, he was hurried away without being allowed to make any defence, and thrown into a bafon at the head of the ! pring of Ferentinum, where a hurdle being laid upon him, and ftones laid upon the hurdle, he was proffed down into the water and drowned.

In confequence of this monftrous treachery, Tarquin was looked upon by the Latins as their deliverer, and declared general of the Latin armies; f.on after which, the Hernici and two tribes of the Volfci entered into an alliance with him on the fame terms. In order to keep thefe confederates together, Tarquin, with their confent, erected a temple to Jupiter Latialis on a hill near the ruins of Alha, where he appointed certain feafts canted Ferice Latina to be beld on the 27 th of April, where the feveral nations were to facrifice together, and on no account to commit any hoffilities againft each other during their contimnance. The king then proceeded to make war on the rell of the Volfci who had refufed to enter into an alliance with him. Some depredations which they had committed in the territories of the Latins ferved fur a pretence to begin the war ; but as Tarquin had no confidence in the Romans, his army was compofed only of a fmall body of them who were incorporated among the Latin auxiliaries, However, he defeated the enemy, took one of their cities by form, and gave the booty to his foldiers. He next turned his arms againft the Sabines, whom he entirely dcfeated in tivo engagements, and made the whole nation tributary: for which exploits he decreed himfelf two triumphs, and on his return to Rome he employed the populace in finifting the fowers and circus which had been begun by his grandfather Tarquin I.

In the mean time, the perfecutions of Tarquin a. gaint his own fubjeets daily drove fome of the moft confiderable into banifhment. A great number of patricians took refuge in Gabii, a city of Latium about 13 miles from lome; where the inhabitants, touched with
compaffion for their misfortunes, not only received thein with kindnefs, but began a war with Tarquin on their account. The Gabini feem to have been the moft formidable enemies whom the Romans had hitherto met with; fince Tarquin was obliged to raife a prodigious bulwark to cover the city on the fide of Gabii. The war latted feven years; during which time, by the mutual devaltations committed by the two armies, a great fcarcity of provifions took place in Rome. The people foon grew clamerous; and Tarquin being unable either to quiet them, or to reduce the Gabini, fell upon the following difhonourable and treacherous expedient. His fon Sextus Tarquinius pretended to be on very bad terms with his father, and epenly inveighed againf him as a tyrant; on which he was proclaimed a rebel, and publicly beaten in the forum. This being reported at Gabii, by perfons fent thither on purpole, the inhabitants became very defirous of having Sextus among them; and accordingly he foon went thitber, having previourly obtained a folemn promife from the inhabitants never to deliver him up to his father. Here he made frequent inroads into the Roman territories, and always came back laden with fpoil, his father fending againft him only fuch weak parties as muf infallibly be wortted. By this means he foon came to have fuch a high degree of credit among the Gabini, that he was chofen general of their army, and was as much mafter at Gabii as Tarquin was at Rome. Finding then that his authority was fufficiently efablifhed, he difpatched a flave to his father for infructions; but the king, unwilling to return an explicit anfwer, only took the meffenger into the garden, where he ftruck off the heads of the talleft. poppies. Sextus underfood that by this bint the king defired him to put to death the leading men in the city of Gabii, which he immediately put in execution; and while the city was in confufion on account of this maffacre, he opened the gates to his fathet, who took poffeffion of the city with all the pride of a conqueror.-The inhabitants dreaded every thing from the haughty tyranny of the Roman monarch: however, on this occafion he confulted his policy rather than his revenge; granted them their life, liberty, and eftates, and even entered into a treaty of alliance with them. The articles were written on the hide of an ox, which was ftill to be feen in the time of Auguftus, in the tewple of Jupiter Fidius. After this, however, he made his fon Sextus king of Gabii; fending off alfo his other two fons, Titus and Arunx, the one to build a city at Signia, the other at Circæum, a promontory of the Tyrrhene fea, and both thefe to keep the Volfci in awe.

For fome time Tarquin now enjoyed a profound peace; the Romans, being accuftomed to oppreffion and the yoke of an imperious mafter, making no oppofition to his will. During this interval Tarquin met with the celebrated adventure of the Sibyl *; *Se Sibyla whofe books were ever afterwards held in high ellimation at Rome, and Tarquin appointed two perfons of diftinction to take care of them. Thefe were called Duumviri : but their number was afterwards increafed to 10 , when they were called Decemviri; and then to 15 , when they were termed 9 vindecemviri. At this time alfo the written civil law had its origin among the Romans; all the flatutes enacted by the kings being collected into one body; which, from Papirius the name

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Rone. of the collector, was called the Papirian law. The temple of the Canitol was alfo finitbed; for which purpofe the moft Reilful architeets and workmen were brought from Hetruria, the populace being obliged to ferre them in the moft laborious parts.

We now come to the important revolution which put of the regal an end to the regal power at Rome, and introduced a power. new form of government, to which this city is allowed to owe the greateft part of her grandeur. 'Jarquin, as we have already feen, had left himfelf no friends among the rich citizens, by reafon of the oppreflion under which he made them labour; and the populace were equally difaffected on account of their being obliged to labour in his public works. Among the many perfons of diftinction who had been facrificed to the avarice or fufpicions of Tarquin, was one M. Junius, who had married the daughter of Tarquin I. This nobleman had a fon named L. Junius Brutus, who efcaped the cruclty of the tyrant by pretending to be an idiot, which part he had ever fince continued to act. Soon after the finifhing of the works abovementioned, a violent plague happening to break out at Rome, Tarquin fent his fons Titus and Arunx to confult the oracle of Delphi; and the princes took Brutus along with them, to divert themfelves with his pretended folly by the way. Brutus chofe for his offering to the Delphic Apollo a flick of elder, which occafioned much laughter. However, he had the precantion to inclofe a rod of gold within the ftick; and to this probably it was owing, that the priettefs gave the princes the following riddle, that he who fhould firf kifs his mother fhould fucceed Tarquin in the government of Rome. This anfwer had been given to their mquiries concerning the fucceffion; upon which the two brothers either drew lots which of them fhould kifs their mother at their return, or agreed to do it at once, that both might reign jointly: but Brutus, imagining the oracle had another meaning, fell down and kiffed the earth, the common mother of all living. This, in all probability, the prieltefs had meant; and had given the anfwer on purpofe to have another proof of Brutus's ingenuity, which had already difcovered itfelf, by his offering the elder ftick.

On the return of the princes to Rome, they found their father engaged in a war with the Rutuli. The treafury being exhaufted by the fums which Tarquin had expended in his public works, he had marched to Ardea, the capital of that nation, which lay about 20 miles from Rome, in hopes of taking it without oppofition. Contrary to his expectation, however, he was obliged to befiege it in form : and this conftrained him to lay a heavy tax upon his fubjects, which increafed the number of malcontents, and difpofed every thing for a revolt. As the fiege was carried on very flowly, the general officers frequently made entertainments for one another in their quarters. One day, whien Sextus Tarquinius was enteriaining his brothers, the converfation happened to turn upon their wives: every one extolled the good $\eta$ ralities of his own; but Collatinns beftowed fuch extravagant praifes on his Lucretin, that the difpute ended in a kind of quarrel. It was then refolved that they flould mount their horfes and furprife their wives by their unexpected return. The king's daughters-in-law were employed in fealting end diverfion, and Feemed much difonserted by the ap-

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pearance of their hufbands; but Lucretia, thongh the night was far advanced, was found, with her taxils about her, finning and working in wool. S'se was not at all dilcompofed by the company whom her hutband brought with him, and they we e all pleafed with the reception fhe gave them. As Lucretia w 3 very beautiful, Sextus $\mathfrak{1}$ arquinius conceived a paffion for her, which refolving to fatisfy at all events, be foon retumed to Collatis in the abfonce of Lucretia's Lucietia, huiband, and was entertained by her with grcat civility rivifhed thy and refpect. In the night time he entercd Lucretia's Sexlus Tarapartment, and threatened her with immediate death if yuinius, The did not yield to his defires. But findiing her not telf. to be intimidated with this menace, he tokl her, that, if fle ftill perfifted in her refufal, he would kill one of her male flaves, and lay lim naked by her when fhe was dead, and then declare to all the world that he had only revenged the injury of Collatinus. On this the virtuous Lucretia (who, it feems, dreaded proftitution lefs than the infamy attending it) fubmitted to the defires of Sextus; but refolved not to oullive the violence which had been offered her. She dreffed herfelf in mourning, and took a poniard under her robe, having previoufy written to her hufband to meet her at her $f$ ther Lucretius's houfe, where fhe refufed to difcorer the caufe of her grief except in a full affembly of her friends and relations. Here, addrefiing herfelf to her hufband Collatinus, fhe acquainted him with the whole affair; exhorted him to revenge the injury; and protefted that fhe would not outlive the lofs of her honour. Every one prefent gave her a folemn promife that they would revenge her quarrel ; but while they endeavoured to comfort her, fhe tuddenly ftabbed herfelf to the heart with the dagger which the had concealed under her robe. See Canstity.

This extravagant action inflamed beyond meafure the minds of all prefent. Brutus, laying afide his pretended folly, drew the bloody dagger out of Lucretia's body ; and, chowing it to the affembly, fwore by the blood upon it that he would purfue Tarquin and his family with fire and fiord: nor would he ever luffer that or any other family to reign in Rome. The fame oath was taken by all the company, who were fo much furprifed at the apparent tranfition of Brutus from folly to wifdom, that they did whatever he defired them.By his advice the gates of the city were fhut, that nobody might go out of it to inform Targuuin of what was going forward; which, as Lucretius had been left governor of the city.by Tarquin, was put in execution without difficulty. The corple of Lucretia was then expofed to public view: and Brutus having made a freech to the people, in which he explained the myltery of his conduct in counterfeiting folly for many years paf, proceeded to tell them that the patricians wete come to a refolution of depufing the tyrant, and exhorted them to concur in the fame defign. The people Tar $\mathrm{s}^{5}$, tellified their approbation, and called out far arms; hut depured. Prutus did not think proper to truft them with arms till he lad firit obtained a decree of the fenate in favour of the defign. This was exfily procured : the fenate enased that Tarquin had forfcited all the prerogatives belonging to the regal authority; condemned him and all his pofferity to perpetual baniftument, and devoted to the gods of hell every Roman who Ghouid beceafter, by word or deed, chdezvour his reftomation ;

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Rome: and tiais lecree was unanimoufly confirmed by the
 The iorm ci govern. ment changc : curice.
Tarquin being thus depofed, the form of government became the next oljeer. Lacretius was for the profent deelared $h$ urrex; ; but Britus being agais coriuliced, declared, that though it was by no means proper for the flate to be without fliprease mayiffrates, yet it was equally necefiary that the powcr filsuld not be centered in one man, and that it ftould not le perpettal. For this realom, he propocicd, thist two magiltates, called corfun', sliould be elected annually ; th in the thate fhould thenceiverth have the nan:e of rip.abic ; that the cufigns of royaly fhould be abolitiled; and that the only enfigns of contular digniity flould be an ivory chai,, a white robe, and 12 lictors for their attendants. How. ever, that he might not utterly abolifh the name of king, he propofed lhat this tite thould be given to him who had the fuperintendency of religious matters, who should thenceforth be called rix facrorum, or king of $f a$ cred things.

The fcheme of Brutus being approved of, Brutus and Collatirus were propofed by Lucrctius as the two firlt confuls, and unanimioxily accepped by the people, who thought it was impontiole to find more inplacable enemies to the Torquils. Thes entered on their clfice in the year 508 B. C.; and Tullia, perceiving that now ail was loft, thought proper to tave the cily, and retive to hor hufand at Ardea. Slie was fuffered to depart wilhonit moleclation, though the populace hooted at her, and curfed her as flic went along. Tarquin, in the mean time, being informed by forme who had got out of Rome before the pates were fhut, that Brutus was raifing commotions to his prejudice, returned in hafte to the ciiy, attended oully by his fons and a few friends; but, finding the gates flut, and the people in arrns on the wall, he returned again to the camp: but here again, to his furpriie, he fumid that the confiuls had takicn the opporturity of gaining over the army to their intereff ; fo that, being refured admittance into the camp alfo, he was forced to fly for refuge, at the age of 76 , with his wife and three fons, to Gabii, where Sextus had been made king. Here he continued for fome time : but not finding the Latins very forward to revenge his caufe, he retired into Hetruria; where, being the country of his mother's family, he hoped to find more friends, and a readier afliflance for attempting the recovery of his throne.

The Romans now congratuluted themfelves on their
flates of Latium and Hetruria, that many of them were conflained to enter into treaties with home, by which they obliged themfelves to furnilh her with ausilizizes whenever fhe fhould be plealed to invade and pillage the linds of her other neighbours. Submiftions of this kind the Romans called menking aliaances with thens, and thele ufeful alliances fupplied the want of a larger territury; bet now, upon the change of her government, all the allies of Rome forlook her at once, and cither houd neuter, or cfpoufed the caufe of the banifled ling ; fo that fhe was now obliged to maintain her liberties as fhe belt might.

The new confuls in the meau time took the mon effectual methods they could for fecuring the liberties of the republic. The army which had been conployed in the fiege of Ardea marched home under the conduct of Herminius and Horatius, who concluded a truce with the Ardeates for 15 years. Ihe confuls then again afiembled the people by centuries, and had the decrce of Tarquin's banilhanent confumed ; a rex. facrorum was elected to prefide at the facrifices, and n.any of the laws of Servius Tul ius were revived, to the great joy of the people, who were thus reftored to th.cir ancient right of veting in all important aflairs. Tarquin, however, refolved not to part with his kingdom on fuch enly terms. Having wandered from city to city in order to move compation, he at length made 'Tarquinii the leat of his refidence; where he engaged the inhalitants to fend an embany to Rome, nith a modeft, lubmifive letter from himfelf, directed to the Fioman people. The ambafiadors reprefented in fuch frong terms to the fenate how reafonable it was to let the ling be warquin heard before he was condemned, and the danger which the Roman threatened the fate from the neighbouring powers if peopie. that common juftice were refufed, that the consils inclined to bring thefe agents before the people, and to leave the decifion thereof to the curix; but Valerius, who had been very active in the revolution, ftrenuoully oppofed this, and by his influence in the fenate got it prevented. As that illuftrious body had been greatly thinned by the murders committed by 'Tarquin, netv members were elected from among the knights, and the ancient number of 300 again completed. The oid fenators had been called patres or "fathers;" and as the names of the new ones were now written on the fame roll, the whole body received the name of patres conforiphi.

The old king was not to be foiled by a fingie attempt. He prevailed on the inhabitants of Tarquinii to fend a fecond embalfy to Rome, under pretence of demanding the eftates of the exiles, but with private inftructions to get the conflu's affafinated. The reftoration of the eftates of the exiles was oppofed by Brutus, but Collatinus was for complying with it; whereupon Brutus accufed his colleague of treachery, and of a defign to bring back the tyrant. The matter w..s then referred to the people, where it was carried by one vote in favour of the Tarquins. But whilft the prople were employed in loading carriages with thie cffects of r.... the exiles, and in felling what could not be carried off, in lis sathe ambaffadors found means to draw fome of the neareft relations of the conluls into a plot with them. Thefe were three young noblemen of the Aquilian family (the fons of Collatinus's fifter), and two of the Vitellii (whofe fifter Brutus had married); and thefe laft en-

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gaged Titus and Tiberins, the two fons of Rrutus, in the fame confuiracy. They all bound themilelves by folemn oaths, with the dreadful ccremony of drinking the blood of a murdered man and touching his entrails. They met at the houfe of the Aquili, where they wrote letters to Tarquin and gave them to the ambatfadors. But though they uled all imagimable precaution, their proceedings were overheard by one Vindicius a flave, who immediately communicated the whole to Valerius: upon which all the criminals were apprehended. Brutus ftood judge over his own fons; and, notwithltanding the interceffion of the whole affembly, and the tears and lamentations of his children, commanded them to be beheaded; nor wouid he depart till he faw the execution of the fentence. Having performed this piece of heroic barbarity, lie quitted the tribunal and lefi Collatinus to perform the reft. Collatinus, however, being inclined to lpare his nephews, allowed them a day to clear themfelves; and caufed Vindicius, the only witnefs againft them, to be delivered up to his maflers. This roufed the indignation of the people in general, efpecially of Valerius, who had promiled to protect the witnefs, and therefore he refuled to deliver him up to the lictors. The multitude called aloud for Brutus to return; which when he had done, he told them that he had executed his two fons in confequence of his own paternal authority over them, but that it belonged to the people to determine the fate of the refl. Accordingly, by a decree of the curie, all the delinquents faffered as traitors except the ambaffadors, who were fpared out of refpect to their character. The flave Vindicius had his liberty granted him; and was prefented with 25,000 afes of brafs, in value about 801.14 s. 7 d of our money. The decree for reftoring the eftates of the exiled Tarquins was annulted, their palaces were deffroyed, and their lands divided among the indigent people. The public only retained a piece of ground, near the Campus Martius, which the king had ufurped. This they confecrated to Mars, and it afterwards became a common field where the Roman youth exercifed themfelves in running and wreftling. But after this confecration, the fuverititious Romans fcrupled to ufe the corn which they found there ready reared to their hands: fo that, with fome trees, it was thrown into the 'Tiber; and the water being low, it flopped in the middle of the river, and began to form a fine ifland named afterwards Infula Sacra.

The behaviour of Brutus towards his two fons flruck fuch a terror into the Fomans, that fcarce any perfon durfo oppole him; and therefore, as he hated Collatinus, he onenly accufed him before the people, and without ceremnin denofed him from the confullhip, banifhing him at the fame time from Rome. The multitude acquiefed in every thing be faid, and refufed to hear Collatinus fpeak in his oun defence; fo that the conful was on the point of being driven out with ignominy and difzrace, when Lucretius interpofed, and prevailed unon Brutus to allow his collergue quietly to refign the fafces, end retire of his own arcord from the city. Brutus then, to remave all fufpicions of perfonal enmitv, procured him a prefent of 25 talents out of the public treafurv, to which he added five of his own. Collatinus then retired to Lavinium, where he lived in peace, and at laft died of old age.

## A. I$] \quad \mathrm{R} O$ iI

Afier the abdiation of Collatinus, Valeni. th f....e fen in his room ; at d as his temper a foed 41 . .n. . Ut r with Brutus than that of Collatnus, the two c mols lived in great harmony. Nothing, howelcr, cou'd malie the dethroned king forego the hope of recovering $\mathrm{Li}^{\text {is }} 66$ kingdom by force. He birl en aged the Villa and Ther Tarquinicnles to join therr losces in order to fupport hisw dres. rights. The conluls marched out without delay to meet ${ }^{\text {an }}$ as them. Brutus commanded the horle and Valcrius the vur of foot, drawn up in a fquare battalion. The two armies taryuin. being in fitht of each other, Brutus advanced with his cavalry, at the fame time that Aruns, one of 'Tarquin's fons, was coming forward with the enemy's horle, the king himfelf following with the legions. Arunx no fooner dilcovered Brutus, than he made towards him ${ }_{67}$ with all the fury of an enraged enemy. brulus ad- Bruts nit vanced towards him with no lels fpeed; and as both arnak il were actuated only by motives of hatred, without ${ }^{\text {cach uther. }}$ thoughts of felf-prelerration, both of them were pierced through with their lances. The death of the two gcnerals ferved as a prelude to the battle, which continued with the utmoft fury till night, when it could not be known which fide had got the victory, or which lad loft the greateft number: of men. A report was fpicad, however, that a woice had been heard out of a neighbouring wood, declaring the Romans conquerors; and this, probably a ftratagem of Valerius, cperated fo porrerfully on the fupertitious miuds of the Volfci, that they left their camp in confufion, and seturned to their own country. It is faid that Valerius, having caufed the dead to be numbered, found that the Vollici had lolt 11,300 men, and the Romans only one fhurt ois tbat number.

Valerius being left without a colleague in the confulthip, and having for tome reafons delaycd to choofe one, began to be lufpected by the people of afpiring: at the fovereignty; and thefe fulpicions were in lome meafure countenanced by his building a finc houle on the fteep part of the hill Palatinus, which overl-oked the formm, and was by them confidered as a citadel, But of this Valcrius was no fooner informed, than he caufed this houfe to be pulled down, and immediately called an affembly of the people for the election of a conful, in which he left them entirely free. They chofe Lucretius; and, being afhamed of having fufpected Valerius, they complimented him with a larie ground-plot in an agreeable place, where they built him a houfe. The new conful died a few diays after his promotion, fo that Valerius wass once mure leit fole governor. In the interval betwist the death of Lucretius and the choice of another conful, Vaierius gave the people fo many friking proofs of his attachment to their interelt, that they beftowed upon him the furname of Pop/licola, or "popular ;" nor was he ever called by another name afterward".

When Poplicola's year of confullihip expired, the Ro. mans thouche fit, in confequence of the critical fituation of alfairs, to elect him a fecond time, and joined with Fim T. Lucretius, the brother of the famous Lu crectia. They began with reftoring the ceufus and lufrum ; and found the number of Roman citizens, at or above the age of puberty, to amount to 120,200 . As they apnrehended an attack from the Latins on account of Tarquin, they were at great pains to fortify Sinquirinum or Singliuria, an impurtant poft on that

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Rome. fide. Contrary to their expcetations, however, the Latins remained quiet; but an haughty embafly was received from Porlena king of Clufium in Hetruria, com-

Poriera in. vale the Ruman tersitorics, manding them either to take back the Tarquins to Rome, or to reltore them their ellates. To the firit of thefe demands the confuls returned an abfolute refufal; and, as to the fecond, they anfwered, that it was impracticable; a part of thufe eftates having been confecrated to Mars, and the reft divided among indigent people, from whom they could not be recovered. The imminent. danger which now threatened the city, procured Valerius the honour of a third conlulhip; and with him was joined Horatius Pulvilius, who had enjoyed the dignity for a few months before in the interval betwixt the death of Lucretius and the expiration of 69 the nirft confulate.

While the Romans were making the mof vigorous preparations for defence, Porfena, attended by his fon Arunx and the exiles, marched towards the city at the head of a formidable army, which was quickly joined by a confiderable body of Latins under Mamilius, the fon-in-law of Tarquin. The confuls and the fenate took all imaginable care to fupply the common people with provilions, left famine fhould induce them to open the gates to Tarquin; and they defired the country people to lodge their effeets in the fort Janiculum, which overlooked the city, and which was the only fortified place poffeffed by the Romans on that fide the Tiber. Porfena, howeyer, foon drove the Romans out of this fort ; upon which the confuls made all their troops pals the river, and drew them up in order of battle to defend the bridge, while Porlena advanced to engage them. The victory was a long time doubtful ; but at laft the Romans fed. Horatius Cocles, nephew to the conful, with Sp. Lartius and T. Herminius, who had commanded the right wing, pofted themfelves at the entrance of the bridge, and for a long time bravely defended it: but at laft, the defenfive arms of Lartius and Herminius being broken, they retired; and then Horatius defiring them to advife the confuls from him to cut the bridge at the other end, he for a while fuftained the attack of the encmy alone. At laft, being wounded in the thigh, and the figual given that the bridge was almof broken down, he leaped into the river, and fwam acrofs it through a fhower of darts. The Romans, in token of gratitude for this eminent fervice, erected a tatue to him in the temple of Vulcan, gave him as much land as he himfeif with one yoke of oxen could plough in one day; and each of the inhabitants, to the number of 300,000 , twe him the value of as much food as each confumed in a day. But notwithffanding all this, as he had loft one eye, and from his wounds continued lame throughout the remainder of his life, thefe defeals prevented his ever being raifed to the confulate, or inveled with any military command.

The city was not yet fully invefted; but as it was very difficult to find provifions for luch a multitude, the inhabitants foon began to be in want. Porfena being informed of their difficulties, told them that he would fupply them with provifions if they would take back their old matters; but to this they replicd, that hunger was a lefs evil than flavery and oppreffion. The confancy of the Romans, however, was on the point of failing, when a young patician, named Mutius Cor-
dus, widh the confent of iithe fenate and confuls, under took to affafinate Porfena. He got accefs to the He trunian camp, diiguifed:like a peafant, and made his way to the king's tent. It happened to be the day on way to the king's tent. It happened to be the day on sttempt of
which the troops were all rexicwed and paid; and Por-Muturcor\&ena's. fecretary, magnificently dreffed, was fitting on dus to affafo the lume tribural with the king. Mutius, nititaking finate $^{2}$ Porhim for Porfena, inflantly leaped upon the tribunal and killed him. He then attempted to make his cicape; but being feized and brought back, be owned his defign; and with a conntenance expreflive of defperate rage and difappointment, thrut lis band which had milied the blow into a pan of bunning coals which flood by, and there held it for a couliderable tine. On this, Porfena, changing his refentment into admiration, granted him his life and liberty, and even reftored him the dagger with which he intended to have ilabbed himfelf. Mutius took it with his left hand, having loft the ufe of the other; and from this time had the name of Scuevola, or "left-handed." He then, in order to induce Porfena to break up the fiege, invented a lfory that 300 young Romans, all of them as refolute as himfelf, had fivorn to take away the life of the king of Hetruria, or to perith in the attempt. This had the defired effeet ; Porfena fent deputies to Rome, whofe only demands were, that the Romans fhould reftore the eftates of the Tarquins, or give them an equivalent, and give back the feven fmali towns which had been formerly taken from the Veintes. The latter of thefe demands was cheerfully complied with; but the former was ftill refufed, until Porfena fhould hear the ftrong reafons they had to urge againtt it. A truce being agreed on, deputies were fent to the Hetrurian camp to plead the Roman caufe againf the Tarquins, and with them ten young men, and as many virgius, by way of hoftages for performing the other article.

The reception which Porfena gave the deputies raifed the jealoufy of the Tarquins; who flill retaining their ancient pride, refufed to admit Porfena for a judge between them and the Romans. But the king, without any regard to their oppofition, refolved to fatisfy himfelf, by an exact inquiry, whether the protection he had given the Tarquins was juft. But while the caufe was ready to be opened before the Roman deputies, news were brought that the young women whom the liomans had fent as hoflages had ventured to fuim acrofs the Tiber, and were returned to Rome. They had gone to ${ }^{72}$ bathe in the river, and Clalia happening to turn her of cladias eyes towards her native city, that fight raifed in her a defire of returning to it. She therefore ventured to fwim acrofs the river; and having encouraged her companions to follow her, they all got fafe to the oppofite fhore, and returned to their fathers houfes. The return of the boftages gave the conful Poplicola great uneafinefs; he was afraid left this rath action might be imputed to want of fidelity in the Romans. To remove therefore all fufpicions, he fent a deputation to the Fictrurian camp, affuring the king that Rome had no flare in the foolifa attempt of the young women; and promifing to fend them immediately back to the camp from whence they had fled. Porfena was eafily appeafed; but the 73 news of the fpeedy return of the hoftages being known of the Tare in the camp, the Tarquins, without any regard to the quins. truce, or refpect to the king their protector, lay in ambufh on the road to furprife them. Poplicola having.

## $\mathrm{R} \cap \mathrm{M}$

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put himieli at the head of the Roman troops who efcorted them, fultained the attack of the Tarquins, though fadden and unexpected, till bis daughter Valeria rode fuil fiped to the Hetrurian camp, and gave notice of the danger her father and companions were in ; and then Arunx, the king's fon, Blying with a great body of cavalry to their relief, put the aggrefors to the rout.

This notorious piece of treacbery in the Tarquins gave Porfena ftrong fufpicions of the badnefs of their caute. He therefore affembled the chief commanders of the Hetrurians; and having heard in their prefence the complaints of the Romans, and the juitification of their proceedings againtt the Tarquins, he was fo truck with horror at the recital of the crimes the Tarquins were charged with, that he immediately ordered them to leave his camp; declaring, that he renounced his alliance with them, and would no longer continue the hofpitality he had thown them. He then commanded the ten young virgins to be brought before him, and inquired who was the firft author and chief manager of the enterprife. They all kept filence, till Clælia herfelf, with an air of intrepidity, confefled, that the alone was guilty, and that the had encouraged the others by her advice. Upon this the king, extolling her refolution above the bravery of Horatius and the intrepidity of Mutius, made her a prefent of a fine horfe, with fumptuous furniture. After this he concluded a peace with the Romans, and reftored to them all their hoftages; declaring, that their bare word was to him a fufficient fecurity for the performance of the articles.
And now Porfena being about to return to Clufium, gave, before his departure, a further teftimony of his refpeet and friendihip for the Romans. He knew that Rome was greatly diitreffed for want of provifions; but being afraid to offend the inhabitants by relieving them in a direct manner, he ordered his foldiers to leave behind them their tents and provifions, and to carry nothing with them but their arms. As his camp abounded with all forts of provifions, Rome was hereby much relieved in her wants. The moveables and corn of the Hetrurians were fold by auction to private perfons; and on this occafion the Romans took up the cuftom of making a proclamation by an herald, whenever any effects belonging to the public were to be fold, in the following words, Thefe are Porfena's goodr. The defign of this was to preferve the momory of that prince's kindnefs. The fenate, not fatisfred with this, erected a ftatue of the king near the comitium, and fent an embafly to him with a prefent of a throne adorned with ivory, a fceptre, a crown of goid, and a triumpinil robe.

Thus the Romans e.caped the greateft danger they had hitherto been in. However, they did not yet enjoy tranquillity. The Sabines revolted, and continued the war for fome time with great obftinacy: but being defeated in feveral engagements, they were at laft obliged to fubmit; and frarce was this war ended, when ano-
-6 ther began with the Latins, who now dcclared for King The Latins Tarquin. Before they began this war, however, an emdeclare for baffy was fent to Rome, the purport of which was, that Tarquin. the Forans floould raife the ficge of Fidenz which had revolted, and receive the Tarquins : who, on their part, fhould grant a general amnetly. The ambaffadors were to allow the Romans a wholc year to confider on thefe overtures; and to threaten them with a war in cale

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they refuled to comply with them. : The chief view of. Rearc. Tarquin and his partifans in promoting this embally was, to lay hold of that opporturity to raife a ledition in the city. To the ambaffados, therefore, of the Laz tins, he joined fome of las own cmillaries; who, on their arrival in the city, found two forts of people dilpofed to enter into their meatures; to wit, the flaves, and the meaner citizens.

The flaves had formed a conlpiracy the year before A dange to feize the Capitol, and fet fire to the city in feveral rousconquarters at the fame time. But the plot being difco-Spiracy vered, thole who were concerned in it had bcen all cru-againgt the cified, and this execution had highly provoked the fate, whole body of flaves. As to the meaner citizcns, who were for the moft part overwhelmed with debt, and cruelly uled by their creditors, they were well apprifed that there could happen no change in the government but to their advantage. Thefe were the corfpirators pitched upon, and to them were given the fol'lowing parts to act : the citizens were to make themfelves mafters of the ramparts and gates of the city, at an appointed hour of the night ; and then to raife a great thout as a fignal to the llaves, who bad engaged to maliacre their mafters at the fame inflant ; the gates of the city were then to be opened to the Tarquins, who were to enter Rome while it was yet reeking with the blood of the fenators. The confpiracy was ripe for execution, when Tarquin's principal agents, Publius and Marcus, both of his own narue and family, being terrified with frightful dreams, had not courage enough to proceed in their defign till they had confulted a diviner. However, they did not difcover to him the confpiracy; but only afted him in general terms, what fucceis they might expect in a project they had formed? The foothfayer, without the lealt hefitation, rcturned the following anfwer: Vour prcject will end in your ruin; difourden pourfelves of fo heavy a load. Hcreupon the Tar how difcequins, fearing left fome of the other confpirators fhould be beforehand with them in informing, went immediately to S. Sulpitias, the only conful then at Rorae, and difcovered the whole matter to him. The conful greatly commended them, and detained them in his houfe, till, by private inquiries, he was affyred of the truth of their depofitions. 'Then he affembled the fenate, and gave the Latin ambaffadors their audience of leave, with an anfwer to their propofals; which was, that the Romans would neither reccive the Tarquins, nor raife the fiege of Fidenæ, being all to a man ready to facrifice their lives in defence of their liberties, and willing to undergo any dangers rather than fubmit to the government of a tyrant.

The ambeffadors heing difmiffed with this anfwer, and conducted out of the city, Sulpitius laid open to the fathers the dreadful confpiracy. It fluck them with horror: but they were all at a lofs in what manner they fhould apprehend and punith the guilty ; fince, by the law of Poplicola, there was an appeal to the people in all capital cafes; and the two witneffcs, who were ftrangers, might be excepled againlt by Roman citizenc. * this perplesity they left the whole conduct of this critical affair to Sulpitius; who took a methor which he thought would equally lerve to prove the guilt amf punith the guilty. He engaged the two informers to affemble the cosnfirators, and to appoint a rendezvores at midnight in the forum, as if they defignad to twke

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Rome. the lat meafures for the execution of the enterpriic. In the mean time he ufed all proper means to fccure the city, and ordered the Roman knights to hold themfelves ready, in the houfes adjoining to the formm, to execute the orders they thould receive. The co:limators met at the time and place appointed by the two Tarquins; and the knights, upon a fignal agreed on beforehand, inveit:d the forum, and blocked up all the avenues to it fo clofely, that it was impuffible for any of the confpirators to make their efcape. As foon as it was light, the two confuls appeared with a ttrong guard on the tribunal ; for Sulpitius had fent to his colleague Manius, who was befieging Fidenze, defiring him to haften to the city with a chofen body of troops. The people were convened by curix, and acquainted with the coufpiracy which had been formed againt the common liberty. The accufed were allowed to make their defence, if they bad any thing to offer againft the evidence; but not one of them denying the fact, the confuls repaired to the fenate, where fentence of death was pronounced

This decree of the fenate being read to and approved by the affembly, the people were ordered to retire, and the confpirators were delivered up to the foldiers, who put them all to the fiword. The peace of Rome was thought fufficiently fccured by this froke of feverity ; and therefore, thougl all the conspirators were not punifhed with death, it was judged proper not to make any further inquiries. The two informers were rewarded with ail the privileges of Roman citizens, 100,000 afes, and 20 acres of land. Three feflival days were appointed for expiations, facrifices, and public games, by way of thaakfgiving to the gods. But the general joy was difturled by a melancholy accident ; as the people were conducting Manius Tullius the conful from the circus to his houfe, he fell from his chariot, and died three days after.

The city of Fidene was not yet reduced: it held out during the following confulfhip of T. 庣butius and P. Veturius; but was taken the n st year by T. Lartius, who, together with $\Omega$. Chelins, was raifed to the confular dignity. The Latins, euraged at the lofs of this town, began to complain of their leading men; which opportunity Tarnuin and Mamilius improved fo far, as to make all tho L . tin cities. $2+\frac{\text { in number, enter }}{}$ into an alliance againf liome, and to bind themfelves by oath never to violate their engagements. The Latins made valt preparations, as did likewife the Romans; but the latter could procure no affiltance from their neighbours. As the Latin nation was much fuperior to them in flrength, they fint deputies to folicit fuccours from the feveral ftates with which they were furrounded: but their negociations proved every where unfucceffiful; and, what was worfe than all, the republic had rebellious fons in her onn bofom, who refuled to lend their aid in defence of their country. The puorer
so fort of peonle. and the d-btors, refufed to t:lte the mili1) turban- tary oaths. or to ferve; alleging their poverty, and the
fruitefs hazards they ran in fiching for the defence of a city, where th. $y$ were on ef-d and eninfoed hy their creditors. This fpirit of mative $f$ read among the inferior claffes, moft of them refuing to ! !? themferes unlefs their debte w.re all remitted br a dacree of the fenate; nay, they began to talk of leaving the city, and fetting elfewhere.

The fenate, apprefenuing a general infur:efior, affembled to deliberate on the me: ns of quieting thofe domettic troubles. Some were for a frce remulficn of all debts, as the fafeft expedient at that jumeture; others urged the dangerous confequences of fuch a condefeenfion, advifing them to lift fuch only as were willing to ferve, not doubting but thote who refused their affittance would offer it of their own accord when it was no longer defired. Several other expedien's were propofed: but at length this prevailed; to wit, that all actions for debts thould be futpended till the conclufion of the war with the Latins. But this the indigent debtors thought only a fufpenfion of their mifery ; and therefore it had not the intended effect on the minds of the unruly multitude. The fenate might indeed have profecuted the ringleaders of the fedition; but the law of Poplicola, called the Valerian law, which allowed appeals to the affembly of the people, was a protection for the feditious, who were fure of being acquitted by the accomplices of their rebellion. The fenate, therefore, to elude the effect of a privilege that put fuch a reftraint upon their power, refolved to create one fupreme magiftrate, who, with the title of diEiator, Thould have an abfolute power for a time: but as this could not be done without ftriking at the law of Poplicola, and transferring the power of the people in criminal cafes to a magittrate fuperior to all laws, it was neceflaty to ufe artifice, in order to obtain the confent of the curix. They therefore reprefented to them in a public affembly, that, in fo difficult a conjuncture, when they had their domeftic quarrels to decide, and at the fame time a powrerful enemy to repulfe, it would be expedient to put the commonwealth under a fingle a diAtator: governor, who, fuperior to the confuls thanfelves, fhould reated. be the arbiter of the laws, and as it were the father of his country ; that his power fhould have no limits: but, however, left he fhould abufe it, they ought not to truft him with it above fix months.

The people, not forefeeing the confequences of this change, sgreed to it ; but the greatef difficulty was to find a man duly qualified in all refpees for fo great a truft. T. Lartius, one of the confuls, feenced to he of all men the meft unexcep ionabic; but the fenate, fearing to offend his colleague by an invicious preference, gave the confuls the power of choofing a dictator, and obliged them to mame one of themelves, not doubting but Clalius would vield to the funerior ta. lents of his colleague; nor were they difippoirted in their expechations. But Lartius, with the fame rearlinefs, nomed Cloclis s; and the only conteft was, which of the two hould taife the cther to the fivereme authoriy. Each perfited a' $\mathrm{A} i$ alely in remitting the dignity to his colleague, till C'lius, farting un on a fiadden, abllicated thr coufimin, and, aft. $r$ the mamer of an intenex, prestamed Titus Larlius diefator, who thereumon ras ofli, ged to tale upon him the government of the republic.

Lartius in? d trok as muech flate uron him, affer he He ch ofes had entered unon his office, as he h.d thown modefty in a gen ral refufing it. He hegan by crering, without the partici-" hurie. netion either of the fenate or 1 cople, a gencral of the Roman horfe ; an office which lafted only during the did ntorkir, and which all fubfequent dictators revived immediakely a cier their clection. Sp. C.ffins, formerly confur, and honoured with a triumph, was the perfon he advan-

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Rome. ced to this fecond ftation in the repubiic. Lartius, having $y$ this means feesed the foraen kin. $\because$, riolved, in the next piace, to maise the peopla re . .t and for him. Wi.h this view he nerer arpewted in public, without being attended by 27 licture, to wheit $f$ fees be again adjed the axes whach Ppiic 1!.d cauk d o be taken from them. The norelly of thin fish.t wa alume fufficient to awe the rechitious, and, without crecuions, to fpread confernation througiout Rome. 1 h - n 13 m murs of the inferior luties being by this means ulenced, the dictator commanded a ceifus to be taken, according to the inflitution of King Servius. Every one, without ex.
ception, brought in mas name, ase, the paricutats of lis eitate, Sxc. and thore appeated to be in liurne 150,700 men who were pat the age of puberty. Oui ot thefe the dictator formed foar amaies: the firl he c smandef himfelf; the fecoad he gave to $L$. cilius inis ate colleague; the third to Sp. Cathus his general of the horif; and the fourth he left in Rome, under the commend of this brother Sp. Liritus, who was to guard the city. The Lains not being fo forward in thelr prepdrations as was expectud, all their hortuEties againft Rume this eampaign amounted to no more than the fencing a detachmeat into the Roman territory to lay it watte. Tle dictator gained fome advantage over that party; and the grcat humanity with which he treated the prifoners and wounded, diffored the Latins to litten the more readily to the overtures which he at the fame time made them for a fufpenifon of holtilities. At length a truce was agreed on for a year ; and then Lattius, feeing the republic reflored to its former tranguillity, refigned the dictatorllip, thoush the time appointed for its duration was not yet expired.

The following confulhip of Sempronius Atratinus and Minutius Anguriats, produced nothing memorable. But the next year the tiuce expired, when Aulus Pothumius and T. Virginius took pofieition of the confulfhip. Both Romans and Latins were bufied in making the neceffary preparations for war. The nobility of Latium, who were for the mof part in the interefl of the Tarquins, having found means to exclude the citizens from the Latin diets, carried all before them in thefe afiemblies: whereupon many of the citizens removed with their families to Rome, where they were well received. The Latins being bent upon war, the fenate, notwithlfanding the perfact harmony that reigned between them and the people, thought it expedient to create a dictator. The two confuls were therefore impowered to name one of themfclves to that dignity ; whereupon Virgiaius readily yielded it to his colleague Pofthumius, as the more able commander. The new dictator, having created Æbutius Elva his sencral of the horfe, and divided his army into four bodies, left one of them, under the command of Sempronius, to guard the city; and with the other three, commanded by hinifelf, Virginius, and Ebutius, marched out againat the Latins, who, with an army of 40,030 foot and 3000 horfe, under the command of Scstus Tarquinius, Titus Tarquinius, and Mamilius, had already made themiclves mafters of Corbio, a ftrong-hold belonging to the republic, and put the garrifon to the fword. Potthumius encamped in the night on a fleep hill near the lake Regillus, and Virginius on another hill over-againf him. Jbbutus was ordered to march filently ia the night, with the
cavalry and light-armed infantry, to take poffeffion of
Rome. a trisi lill upon the tom, by winh grovitichs muft be brol.gnt to t ie L.atis.

Lifuie 1 . utius lad foricicd his new canp, le was vignantly autacked by lousus 1 arquinius, blacm he I IL lec three times with gre:t lots, the chetu'o it iving fort him a timely wide coment. Aluetlis, Ifbuius imere pied two coun=rs fint by the $V$ dill 1 , the Lakin generals, and, sy leters found uivon (ha:m, ditcovered, that a com duable army of the Vollei and Hernici wese to join tratain tsices ia teree day: Upun this in iciligence, Potthumius drew I is three bodies of troops togeither, which amounted in all to no more than 24,000 foot and scoo horic, with a definn to engage the enemy before the arnival of the liceosers they expeled. Accordingly he encoutaged his win, and, with his army in batele-array, advanced to the place where the eneny was encamped. The Latins, who were much fuperior to the lionans in numbers, and Lefides bean to want provifions, did not decline th. engogement. Titus Taryuinius, at the head of the Homm exiles and deferters, was in the centre, Mami. lius in the sight wing, and Sextus 'larquinius in the left. In the Roman arry the dictator commanded in the centre, Abutius in the left wing, and Virginius in the right.

The firft body which advanced was that of the dictator ; and, as fuon as it began to march, T. Tarquinius, fingling out the dictator, ran full fpeed againft him. The dictator did not decline the encounter, but, flying at his adverlary, wounded him with a javelin in the right fide. Upon this, the firl line of the Latins advanced to cover their general ; but he being carried out of the field, they made but a faint refflance when charged by the troops of the dictator. They were dcfilute of a leader; and therefore began to relire, when Sextus Tarquinius, taking the place of his brother, brought them back to the charge, and rencwed the fight with fiuch vigour, that the victory in the centre was ftill doubtful. On the fide of Mamilius and Nhutius, both parties, encouraged by the example of their leaders, fought with incredible bravery and refolution. After a long and 'loody conteft, thie two generals agreed to determine the doubtful victory by a fingle combat. Accordingly the champions pufficd on theis: horfes againlt each other. Abutius with his lance wounded Mamilius in the breatt ; and Marilius with his fword FEbutius in the right arm. Neither of the wounds were mortal; but, both generals falling from their horics, put an end to the combat. Marcus Valerius, the brother of Poplicola, fupplying the place of Ebutius, endeavoured, at the hoad of the Roman horfe, to break the enemy's battalions; Lut was repulfed by the cavalry of the Foman rovalifts. At the fame time Namilius appeared again in the van, with a confiderable body of holfe and light-armed infantry. Valerias, with the affillance of his two nephews, the fons of Poplicola, and a chofen troop of voluntecre, attempted to break through the Latin battaliors, in order to engage Mamilius; but being furrounded by the Roman exiles, he received a mortal wound in his fide, fell from his horfe, and died. The dead body was carried off by the two fons of Poplicola, in fpite of the utmol eflorts of the exiles, and delivered to Va lcrius's Servants, who conyeyed it to the Roman c mp .

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Rume. R.we. but the young heroes being afterwards invelted on all fides, and overpowered by numbers, were both killed on the fpot. Upon their death, the left wing of the Romans began to give ground, but were foon brought back by Potlhumius; who, with a body of Roman knights, flying to their affitance, charged the royalills with fuch fury, that they were, after an obftinate refillance, obliged to give way, and retire in the utmoft confufion. In the mean time Titus Horminius, one of the dictator's lieutenants, having rallied thofe who had fled, fell upon fome clofe battalions of the enemy's left wing, which ftill kept their ground under the command of Mamilius, killed him with his own hand, and put that body to flight. But while he was buly in ftripping the body of his enemy, he received himielf a wound, of which he died foon after.

Sextus Tarquinius in the mean time maintained the fight with great bravery, at the head of the left wing, againft the conful Virginius; and had even broke through the right wing of the Roman army, when the dictator attacked him unexpectedly with his victorious fquadrons. Then Sextus, having loft at once all lopes of vickory, threw himfelf, like one in defpair, into the midit of the Roman knights, and there funk under a multitude of wounds, after he had diftinguifhed himfelf in a moft eminent manner. The death of the three generals was followed by the entire defeat of the Latin army. Their camp was taken and plundered, and moft of their troops cut in pieces; for, of the 43,000 men who came into the field, fcatce $10,0<0$ returned home. The next morning the Volfci and Hernici came, according to their agreement, to atfit the Latins; but finding, upon their arrival, how matters had gone, fome of them were for falling upon the Romans before they could recover from the fatigue of the preceding day; but others thought it more fafe to fend ambaffadors to the dictator, to congratulate him on his victory, and affure him that they had left their own country with no other defign than to affift Rome in fo dangerous a war. Pofthumius, by producing their couriers and letters, gave them to underftand that he was well apprifed of their defigns and treacherous proceedings. However, out of a regard to the law of nations, he fent then back unhurt, with a challenge to their generals to fight the next day; but the Volke 1 , and their confederates, not caing to engage a victorious army, decamped in the night, and zelurned to their refpective countries before break of daj.

The Latins having now no remedy but an entire fubmifion fent ambaffadors to folicit a peace at Rome, yie!ding themfelves abfolutely to the judgement of the fenate. As Rome had long fince made it a maxim to fyare the nations that fubmitted, the motion of Titus Lartius, the late dictator, prevailed; and the ancient treaties with the Latias were renewed, on condition, however, that they fiould reftore the prifoners they had taken, deliver up the deferters, and drive the Roman exiles out of Latium. Thus ended the laft war which the Romans maged with their neighbours on account of their banifhed king ; who, being now abandoned by the Latins, Hetruriars, and Sabines, retired into Campania, to Arifodemus tyrant of Cumx, and there dicd, in the goth

The Iumans were no fooner freed from thefe dan-
year of his age and 14 th of his exile.
gerous wars, than they began to opprefs one another; and thofe domeftic feuds took place which continued more or lefs during the whole time of the republic. The firf ditturbances were occafioned by the opprel- New difion of the plebeians who wete debtors to the patii. flurbances cians. The fenate, who were at the head of the patri- ${ }^{\text {at }}$ Romecians, chofe to the confulate one Appius Claudius, who violently oppofed the pretenfions of the plebeians; but gave him for his colleague one P. Servilius, who was of a quite contrary opinion and difpofition. The confequence of this was, that the confuls difagreed; the fenate did not know what to determine, and the people were ready to revolt. In the midt of thefe difturbances, an army of the Vollci advanced towards Reme; the people refufed to ferve; and had not Servilius procured fome troops who ferved out of a perfonal affection to himfelf, the city would have been in great danger.

But though the Volfci were for this time driven back, they had no intention of dropping their defigns ; they engaged in an alliance with them the Hernici and Sabines. In the mean time, the difputes at Rome continued with as much violence as ever. Nay, though they were exprefsly told that the Volfcian army was on its way to befiege the city, the plebeians abfolutely refufed to march againft them ; faying, that it was the fame thing whether they were chained by their own countrymen or by the enemy. In this extremity Servilius promifed, that when the enemy were repulfed the fenate would remit all the debts of the plebeians. This having engaged them to ferve, the conful marched out at their head, defeated the enemy in a pitched battle, and took their capital, giving it up to be plundered by his foldiers, without referving any part for the public treafury.

Whatever might have been the reafons of Servilius for this ftep, it furnifhed Appius with a pretence for refufing him a triumph, as a man of a feditious difpofition, who aimed at popularity by an exceflive indulgence and profufenels to his foldiers. Servilius, incenfed at this injuftice, and encuraged by the acclamations of the people, decreed himfelf a triumph in fpite of Appius and the fenate. After this lie marched againft the Aurunci, who had entered Latium ; and, in conjunction with Pofthumius Regillens, he utterly defeated them, and obliged them to retire into their own country. But neither the fervices of the general nor his foldiers could mollify the fenate and patrician party. Appius even doubled the feverity of his judgements, and imprifoned all thofe who had been fet at liberty during the war. The prifoners cried for relief to Servilius; but he could not obsain the accom ${ }^{1}$ ifhment of thofe promifes which the fenate never hid meant to perform; neither did he choole to quarrel openly wilh thie whole patrician body; fo that, flriving to pre erve the friendfhip of beth parties, he incurred the hatred of the one and the contempt of the other. Perceiving therefore that he had In?t all his intereft with the plebeians, he joined with the patricians againft them; but the plebeians rufaing turualtuoufly into the formm, made fuch a noife, that no fentence pronounced by the judges could be heard, and the utmoft confufion prev.iied through the whole cily. Several propofals were made to accommodate matiers; but through the obitibacy of Appius and the majority of the fenators, they

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Rome. all came to nothing. In the mean time it was neceffary to raife an army againtt the Sabines, who had invaded the territurics of the republic; but the people refufed to ferve. Manius Valezins, however, brother to the celebrated Poplicola, once more prevailed upun them to march out againf the common enemy; having previoully obtained-aiturances from the fente that their grievances fhould be redreffed. But no fooner had vietory declared in favour of the Romany, than the fenate, apprehending that the foldiers at their return would challenge Valerius, who had been nominated dictator, for the performance of their promites, defired him and the two confuls to detain them fill in the field, under pretence that the war was not quite finifhcd. The confuls obeyed; but the dictator, whofe authority did not depend on the fenate, difbanded his army, and declared his foldiers free from the oath which they had taken; and as a further proof of his attachment to the plebeians, he chofe out of that order 400 , whom he invefted with the dignity of knights. Af er this he claimed the accomplithment of the promifes made by the renate. 'Jot inftead of performing them, he had the mortification to hear himfolf loaded with reproaches; on thich he refigned his office as dictaThe foldiers tor, and acquainted the people with his inability to fulrevolt, but all the troubles are man, deferted the confils and oiher officers, and retiended by sed o a hill called atterwards Mons Sacer, three miles creating tribunes of the peopte.
froa Rome, where they continued to oblerve an exact difcipline, offering no fort of violence whatever. The fenate, after taking proper meafures for the defence of
the city, fent a deputation to the malcontents ; but it was anfwered with contempt. In fhort, all things tended to a civil war, when at laft matters were compromiled by the inititution of tribunes of the people, who had power to prevent the palfing of any law that might be prejudicial to the people, and whole perfons were declared facred, infumuch that whoever offered the lea!t violence to the perfon of a tribune was declared accurfed, his effeets were to be confecrated to Ceres, and he himfelf might be killed with impunity ; and all the Romans were to engage themfelves, in their own name and that of their pofterity, never to repeal this law. The people, after thefe regulations, erected an altar to Jupiter the Terrible, on the top of the hill where their camp bad food; and when they had offered facrifices to tlie god, and confecrated the place of their retreat, they returned to Rome, led by their new magiftrates and the deputies of the fenate.

Thus the Romen conftitution, which had originally been monarchic, and from thence had paffed into an ariftocracy, began now to verge towards a democracy. The tribunes immediately after their election obtained permiffion from the fenate to elect two perfons as their minifers or affittants, who fhould eafe them a little in the great multiplicity of their affairs. They were called plebeian adiles; and afterwards came to bave the infpection of the public baths, aqueducts, with many other offices originally belongirg to the confuls, after which they were called fimply adiles.

All oppofition to the making of regular levies being now at an end, the conful Cominius led an army againft the Volfci. He defeated them in battle, and took from them Longula and Polufea; after which he

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befieged Corioil, a city ftrongly fortified, and which might be called their capital. He carried this place, and gaind a victory over the Antiates, the fame day; Bravery ${ }^{90}$ but Caius Marcius, an eminent patrician, had all the Caiue Marglory of both actions. The troops detached by the ius Corso. conful to fcale the walls of Corioli being repulled in lanus their firll affault, Marcius rallied the runaway, led them on afreh to the charge, drove back the cnemy within their walls, and, entering the city with them, made himfelf matter of it. This expluit atchierce, he with all expedition put himfelf in the formoft ranks of the conful's main army, that was jutl going to cngage with the Antiates, who were come to the relief of the place; and there he behaved with equal bravery, and had equal fiuccefs.

The next day, the conful, laving erected his t.ibennal before his tent, calied the foldiers together. His: le fpeech to them was little more than a panegyric up on Marcius. He put a crown upen his head; affyned him a tenth part of all the ipoil; and, in the name of the republic, made him a prefent of a fine horle with fately furniture, giving him leave at the fame time to choofe out any ten of the prifoners for himfelf; and lafly, he allolied him as much money as he could carry away, Of all thefe offers Marcius accepied only the horfe, and one captive of the ten, an old friend if his family, that he might give him his liberty. To add to the glory of the brave warrior, the conful beftowed on him the furname of Coriulantor, transferring thereby from himfelf to Marcius all the honour of the conqueft of Corioli. Cominius, at his reiurn to Rome. difbanded his army ; and war was fucceeded by works of religion, public games, and treaties of peace. $\Lambda$ cenfus and a luftrem clofed the events of this memorable confelhip. There appeared to be in Fome at this time no Diminumore than 110,000 men fit to bear arms ; a nuraber by power of many thoufands lefs than at the laft enrollment. Doubt-the Rolefs great numbers had run away to avoid being flaves mans. to their creditors.

Under the following adminiftration of T. Geganius and P. Minucius, Rome was terribly efPicied by a famine, occafioned chiefly by the neglect of plaughing and fowing during the late troubles; for the fedition had happened after the autumnal equinox, about forv-ing-Lime, and the accommodation was not made till juit before the winter follhice. The fenate difatched 92 jutt before the winter follice. The fenate difpatched A famine
agents into Hetruria, Campania, the cutuntry of the io the city. Volfci, and even into Sicily, to buy corn. Thofe who embarked for Sicily met with a tempeft which retarded their arrival at Syracufe; where they were conftrained to pafs the winter. At Cumse, the tyrant Arifodemus feized the money brought by the commiffaries; and they themfelves with difficulty faved their lives by flight. The Volfci, far from being difpofed to fuccour the Romane, would bave marched againft them, if a fudden and moft defructive peffilence had not defeated their purpofe. In Hetruria alone tbe Roman commiffarics met with furcefs. They fent a confiderable quantity of grain from thence to Rome in barks: but this was in a fhort time cor. fumed, and the milery becaree exceffive: the people were reduced to eat any thing theycould get ; and nature in fo great extremity loathed nothing.

During this c̈iftrefs a deputation came from Velitre a colony a Volfcian city, where the Foroans had formerly plantricnt to 100 S

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Rome. ed a colony, reprefenting that nine parts in ten of its inhabitants had been fwept away by a plague, and praying the Romans to fend a new colony to re-ptople it. The confcript fathers without much hefitation granted the requeft, prefled the departure of the colony, and without delay named three leaders to conduct it.

The people at firft were very well pleafed with the propofal, as it gave them a profpect of relief in their hunger: but when they reflected on the terrible havoc the plague had made among the old inhabitants of Velitre, they began to fear that the place might be fill infected; and this apprehenfion became fo univeríal, that not one of them would confent to go thither. Neverthelefs the fenate at length publifhed a decree that all the citizens fhould draw lots; and that thofe to whofe lot it fell to be of the colony fhould inftantly march for Velitræ, or fuffer the fevereft punifhments for their difobedience: fear and hunger made the people comply; and the fathers, a few days after, fent away a fecond colony to Norba, a confiderable city of Latium. But the patricians were difappointed as to the benefit they cxpected from thefe meafures. The plebeians who remained in Rome being more and more preffed by hunger and want, grew daily more angry with the fenate. At finf they affembled in fmall companies to vent their wrath in abulive complaints; and at length, in one great body, rufhed all together into the forum, calling out upon their tribunes for fuccour.

The tribunes made it their bufinefs io heighten the general difcontent. Having convened the people, Spurius Icilius, chief of the college of tribunes, inveighed moft bitterly sgainft the fenate; and when he had ended his harangue, exhorted others to fpeak freely their thoughts ; particularly, and by name, calling upon Brufus and Sicinius, the ringleaders of the former fedition, and now ædiles. Thefe men, far from attempting to extinguifh the fire, added frefli fuel to it: And the more to inflame the fpirits of the multitude, they enumerated all the paft infults which the people had fuffered from the nobles. Brutus concluded his harangue with loudly - treatening, that if the plebeians would follow his adsice, he would foon oblige thofe men who had caufed the prefent calamity to find a remedy for it ; after which the affembly was dilmiffed.
The next day, the confuls, freatly alarmed at this commotion, and apprehending from the menaces of Bratus fome very mifchievous event, thought it adviable to convene the fenators, that they might confider of the beft means to avert the imfending ewil. The fathers could not agree in opinion. Some were for employing foft words and fair promifes to quiet and gain over the mof turhu'ent. But Aprius's advice prevailed: which was, that the confuls flould call the people ingether, afinre them that the patricians bad not brought pon them the miferies they fuffered, and promife, on the part of the fenate, all poffible care to provide for their necefities; but at the fame time flon'd ieprove the difturbers of the public peace, and threaten them with the fevereft punfhments if they did not amend their tehaviour.

When the confuls, towards the clofe of the day, having affembled the prople, would have fignitied to them the difpofition and intention of the fenate, they were interrupted by the tribunes. $\Lambda$ difpute enfued,
in which no order or decency was obferved on either fide. Several fpeaking at the fame time, and with great vociferation, no one could be well underfood by the audience. 'The confuls judged, that being the fuperior magiftrates, their authority extended to all affemblies of the citizens. On the other fide, it was pretended, that the affemblies of the people were the province of the tribunes, as the fenate was that of the confuls.

The difpute grew warm, and both parties were ready to come to blows; when Brutus having put fome queftions to the confuls, ended it for that time. Next day The power 95 he propofed a law which was carried, that no perfon of the whatever fhould interrupt a tribune when feaking in $p=$ ecple in. an affembly of the people; by which means the influ- creafes ence and power of the popular party was confiderably increafed, and the tribunes became formidable opponents to the confuls and patricians. An opportunity foon offered for both parties to try their ftrength. A great fleet of fhips laden with corn from Sicily, a great part of which was a preferit from Gelon the king of that country to the Romans, and the reft purchafed by the fenate with the public money, raifed their fpirits once more.

But Coriolanus incurred their refentment, by infifting that it fhould not be diffributed till the grievances of the fenate were removed. For this, the tribunes fummoned him to a trial before the people, under pretence that he afpired at the fovereignty.

When the appointed day was come, all perfons were Coriolanus filled with the greateft expeetations, and a vaft concourle banifhed. from the adjacent country affembled and filled up the forum. Coriolanus, upon this, prefented himfelf before the people with a degree of intrepidity that merited better fortune. His graceful perfon, his perfuafive eloquence, the cries of thofe whom he had faved from the enemy, inclined the auditors to relent. But being confounded with a new charge which he did not expect, of having embezzled the plunder of Antium, the tribunes immediately took the votes, and Coriolanus was condemned to perpetual exile.

This fentence againft their braveft defender ftruck the whole body of the fenate with forrow, conflernation, and regret. Coriolanus alone, in the midft of the tumult, feemed an unconcerned fpectator. He returned home, followed by the lamentations of hundreds of the moft refpectable fenators and citizens of Rome, to take a lafting leave of his wife, his clildren, and his mother Vetaria. Thus recommending his little children to their care, he left the city, without followers or fortune, to take refuge with Tullus Attius, a man of great posser among the Volfcians, who took him under his protection, and cfpoufed his quariel.

The firf thing to be done, was 10 induce the Volfci 97 to breali the league which had been marie with Rome; the city. and for this furpofe Tullus fent many of his crizens thi and joins ther, in order to fee fome games at that time celebrat- the Vo'ifi. ing; but at the fame time gave the fenate private information, that the firangers had dangerous intentions of burning the city. This had the defired cficet ; the fenate iffued an order that all ftrangers, whoever they were, flould depart from Rome before furifet. This ordes Tullus reprefented to bis countrymen as an infraction of the treaty, and procured an embally to Rome, complaining of the breacl, and deroanding back all the

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Reme. territories belonging to the Volfcians, of which they had been violently difpofieffed; declaring war in cafe of a refufal: but this meffage was treated by the fenate with
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Gains great over the and Tullus were made generals of the Volfcians: and Romans. accordingly invaded the Roman territories, ravaging and layiog watte all fuch lands as belonged to the plebeians, but letting thofe of the fenators remain untouched. In the mean time, the levies went on very flowly at Rome; the two confuls, who were re-elected by the people, feemed but little fkilled in war, and even feared to encounter a general whom they knew to be their fuperior in the field. The allies alfo fhowed their fears, and flowly brought in their fuccours; fo that Coriolanus continued to take their torms one after the other. Fortune followed him in every expedition; and he was now fo famous for his victories, that the Volici left their towns defencelels to follow him into the field. The very foldiers of his colleague's army came over to him, and would acknowledge no other general. Thus finding himfelf unoppofed in the field, and at the head of a numerous army, he at length invelted the city of Rome itfelf, fully refolved to befiege it. It was then that the fenate and the people unanimoully agreed to fend deputies to him, with propofals of refloration, in cafe he fhould draw off his army. Coriolanus received their propofals at the head of his principal officers, and, with the flernnefs of a general that was to give the law, refured their offers.

Another embafly was now fent forth, conjuring him not to exact from his native city aught but what became Romans to grant. Coriolanus, however, ftill perfifted in his former demands, and granted them but three days in which to finifh their deliberations. In this exigence, all that was left was another deputation ftill more folemn than either of the former, compofed of the pontiffs, the priefts, and the augurs. Thefe, cloathed in their habits of ceremony, and with a grave and mournful deportment, iffued from the city, and entered the camp of the conqueror : but all in vain, they found him fevere and indexible as before.

When the poople faw them return ineffectually, they began to give up the commonsealth as loft. Their temples were filled with old men, with women and children, whe, prolltate at their altars, put up their ardent prayers for the prefervation of their country. Nothing was to be heard but anguiflı and lamentation, nothing to be feen but feenes of affright and diatrefs. At length it was fuggeffed to them, that what could not be effected by the interceffion of the fenate or the adjuration of the priefts, might be brought about by the tears of his wife, or the commands of his mother. This deputation feemed to be relifhed by all; and even the fenate iffelf gave it the fanction of their authority. Veturia, the mother of Coriolanus, at frit made fome hefitation to undertike fo pious a work: however, fhe at lift undertook the embiffy, and fet forward from the city, ac- companied by many of the principal matrons of Rome, with Volumnia bis wife, and his two children. Coriolawas, who at a difance, difoovered - moornful train of females, was refolved to give then a deni I , and called his officers round him to be sitnefs of his refolution; but, wheis told that his moiher and his wife were among the number, he intantly came domn from
his tribunal to meet and embrace them. At frit, the women's tears and embraces took away the power of words; and the rough foldier himfclf, hard as he was, could not refrain from flaring in their dittrefs. Coriolanus now feemed much agitated by contending paffions; while his inather, who faw him moved, feconded her words by the moft perfualive eloquence, ber tears: his wife and children lung round him, intreating for protection and pity ; while the fair train, her companions, added their lamentations, and deplored their own and their country's diflrefs. Coriolanus for a moment was filent, feeling the ftrong conflict botween honour and inclination : at length, as if rouzed from his dream, he llew to take up his inother, who had fallen at his feet, crying out, " () my mother, thou haft faved home, but loft thy fon." Ile accordingly gave orders to daw off the army, pretending to the officers that the city was too Itrong to be taken. Tullus, who had long envied lis glory, was not remifs in aggravating the lenity of his conduct to his countrymen. Upon theireturn, Coriolanus was flain in an infurrection of the people, and afterwards ho:nourably buried, with late and ineffectual repentance.

The year tollowing, the two confuls of the former year, Manlius and Fabius, were cited by the tribunes to appear before the people. The Agrarian law, which had been propofed fome time before, for equally dividing the lands of the commonwealth among the people, was the object invariably purfued, and they were accufed of having made unjuftifiable delays in puttiog it off.

It feems the Agrarian law was a grant the f-nate could not think of giving up to the people. The confuls, therefore, made many delays and excufes, till at length they were once more obliged to have recourle to a difator; and they fixed upon Quintus Cincinaatus, a man who had for fome time given up all views of ambition, and retired to his little farm, where the deputies of the fenate found him holding the plough, and dieffed in the mean attire of a labouring liufbandman. He appeared but little elevated with the addreffies of ceremony and the pompous habits they brought him; and, upon declaring to him the fenate's plealure, he teftified rather a concern that his aid flould be wanted. However, he departed for the city, where both parties were ftrongly inflamed againt each other: but he was relolved to fide with neilher; only, by a flrict attention to the interefts of his country, inliead of gaining the confidence of fastion, to obtain the efteem of all. Thus, by threats and well-timed fubrciliion, he prevaiied upon the tribunes to put off their law for a time, and catried himfelf fo as to be a terror to the multitude whenever they refufed to enlifl; and their griateft encourazer whenever their fubmiffion deferved $i$. Thus, eaclicd br having rellerred that tranguillity to the people which he Cinsmbasfo mach loved limpelf, he aosin gave up the fileridors ${ }^{\text {sus, }}$ of ambition, to enjoy it will a greater relifh in his little farm.

Cincinnatus was not long retired froin his uffice when a freth exisence of the thate once more required his affifmere. The Aiqui and the Volfci, who, though flill worled, fill were for renewing the war, mate new inrn ds into the territories of home. Minutfus, one af the confuls who fucceeded Cincinnatus, was fent to oppoie them: but being naturally timid, and rather more $\cdot$

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Rome. afraid-of being conquerted than defirous of victory, his army was duveninig defle between two mountains, from which; except through the enemy, there was nu egrefs. This, buwever, the Fiqui had the precaution to, fortify; by which the Roman army was fo hemined in on every fode, that nothing remained but fubmifion to, the enemy, famire, or immediate death. Some klighits, whe found means of getting away privately theough the enemy's camp, were the firlt that brought the account of tivis djfafter to Rome. Nothing could es eed the confternation of all ranks of people when informed of it. Ihe fena'e at frift thougint of the other conful ; but not having fufficient experience of his abilities, they unanimoufly turned their eyes upon Cincinnatus, and refolved to rake him dictator. Cincinnatus, the.only perion on whom Rome could now place her whole dependence, was found, as before, by the meffengers of the fenate, labouring in his little feld with cheerful induftry. He was at firit aftonithed at the enfigns of unboundsd power with which the deputies came to inveft him; but ftill more at the approach of the principal of the fenate, who came out to meet him. A dignity fo unlooked for, however, had no effect upon the fimplicity or the integrity of his manners; and being now poffeffed of abfolute power, and called upon to nominate his mafter of the horfe, he chofe a poor man named Tarquitius, one who, like himfelf, defpifed riches when they led to difhonour. Upon entering the city, the dictator put on a ferene look, and intreated all thofe who were able to bear arms to repair before funfet to the Campus Martius (the place where the levies were made) with neceflary arms, and provifions for five days. He put bimfelf at the head of thefe; and, marching all night with great expedition, he arrived before day within fight of the enemy. Upon his approach, he ordered his foldiers to raife a loud fhout, to apprize the conful's army of the relief that was at hand. The Equi were not a little amazed when they faw themfelves between two enemies; but ftill more when they perceived Cincinnatus making the ftrongeft entrenchments beyond them, to prevent their efcape, and inclofing them as they had inclofed the confal. To prevent this, a furious combat enfued; but the Æqui, being attacked on both fides, and unable to refift or tly, begged a ceflation of arms. They offered the dictator his own terms: he gave them their lives; but obliged them, in token of fervitude, to pals under the yoke, which was two fpears fet upright, and another acrofs, in the form of a gallows, beneath which the vanquilhed were to march. Their captains and generals he made prifoners of war, being referved to adorn his triumph. As for the plunder of the enemy's camp, that he gave entirely up to his owo foldiers, without referving any part for himfelf, or permitting thofe of the delivered army to have a thare. Thus, having refcued a Roman army from inevitable defruction, having defeated a potverful enemy, having taken and fortified their city, and, ftill more, having refuled any part of the fpoil, he refigned his dictatorfhip, after having enjoyed it but 14 days. The fenate would have enriched him; but he declined their proffers, choofing to retire once more to his farm and his cottage, content with temperance and fame.

But this repofe from foreign invafion did not leffen the tumults of the city within. The clamours for the

Agrarian lave fill continned, and fill more fiercely, when Sicinius lentatus, a pleberan, advanced in years, but of an aumiraile perion and military deportment, Braver came forward, to enumerate his hardhips and his me-Sicumus rits. This old foldier made no fcruple of extolling the Deatatus, various merits of his youth; but indeed his atchievemenis fupfurted oftentation. He liad ferved his country in the wars 40 yeitis; he had been an officer 30 , firlt a centurion, and then a cribune: be had fought 120 battles, in which, by the force of his fingle arm, he had favel a multitude of lives: he had gained 14 civic, three mural, and eight golden crowns, befides 83 chains, 63 bracelets, 18 gilt fpears, and 23 horfe-trappings, whereof nine were for killing the enemy in fingle combat : moreover, he had received 45 wounds, all before, and none behind. Thefe were his honours: yet, notwithftanding all this, he had never received any fhare of thofe lands which were won from the enemy, but continued to drag on a life of poverty and contempt; while others were poffeffed of thofe very territories which his valour had won, without any merit to deferve them, or ever having contributed to the con- 106 queft. A cafe of fo much hardhip had a ftrong effect Violent diupon the multitude; they unanimoufly demanded that furbances. the law might be pafled, and that fuch merit fhould not go unrewarded. It was in vain that fome of the fenators rofe up to fpeak againlt it ; their voices were drowned by the cries of the people. When reafon, therefore, could no longer be beard, paffion, as ufual, fucceeded; and the young patricians, running furioufly into the throng, broke the ballotting urns, and difperfed the multitude that offered to oppofe them. For this. they were fome time after fined by the tribunes; but their refolution, neverthelefs, for the prefent, put off the Agrarian law.

The commionwealth of Rome had now for near 60 years been fluctuating between the contending orders that compofed it, till at length, each fide, as if weary, vere willing to refpire a wbile from the mutual exertions of their claims. The citizens, now, therefore, of every rank, began to complain of the arbitrary decifions of their magiftrates, and wifhed to be guided by a written body of laws, which being known might prevent wrongs as well as punifh them. In this both Arobaffe the fenate and the people concurred, as hoping that dors fent to fuch laws would put an end to the commotions that fo Athens to long had haraffed the flate. It was thereupon agreed, bring new that ambaliadors fhould be fent to the Greek cities in thence. Italy, and to Athens, to bring home fuch laws from thence as by experience had been found moft eqitable and ufeful. For this purpofe, three fenators, Pofthumius, Sulpicius, and Manlius, were fixed upon, and galleys affigned to convoy them, agreeable to the majefty of the Roman people. While they were upon this commiffion abroad, a dreadful plague depopulated the city at home, and fupplied the interval of their abfence with other anxiety than that of wilhes for their return. In about, a year the plague ceafed, and the ambafiadors returned, bringing bome a body of laws, collected from the moft civilized ftates of Greece and Italy, which being afterwards formed into ten tables, and two more being added, made that celebrated code called the Laws of the Twelve Tabler, many fragments of which remain to this day.

The ambalfadors were no fooner returned, than the Decemriti tribunes elested.

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Rome. tribunes required that a body of men thould be chofen to digeit them new laws into proper form, and to give weight to the execution of them. After long debates whetier this choice fhould not be partly made from the people as well as the patricians, it was at latt agreed that 10 of the principal fenators thould be elected, waute power, continuing for a year, fhould be equal to that of kings and oontuls, and that without any appeal. Tbe petions chofen were Appius and Genutius, who had been elected confuls for the enfuing year Portautnius, Sulpicius, and AIanlius, the three ambal.fadors; Sextus and Romulus, former confuls; with Julius Veturius, and Horatius, fenators of the firlt confideration.

The decemviri being now invefted with abfolute power, agreed to take the reins of government by turns, and that each fhould difpenfe juttice for a day.

Thele magiltrates, for the firt year, wrought with exireme application; and their work being finifhed, it was expected that they would be contented to give

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 the Fquai and Volici. power, they were now unwilling to refign it: they theretore pretended that fome laws were yet wanting to complete their defign, and intreated the fenate for a continuance of their offices; to which that body 3 !fented.But they foon threw off the mafk of moderation ; and, regardlefs either of the approbation of the fenate or the people, refolved to continue themfelves, againil all order, in the decemvirate. A conduct fo notorious produced difcontents; and thefe were as fure to produce frelh acts of tyranny. The city was become almofi a defert, with refpect to all who had any thing to lole; and the decemvirs rapacity was then only difcontinued, when they wanted frelh objects to exercife it upon. In this flate of flavery, profeciption, and mutual diftrult, not one citizen was found to ftrike for his country's freedom; thefe tyrants continued to rule without controul, being conflantly guarded, not with their lictors alone, but a numerous crowd of dependents, clients, and even patricians, whom their vices had confederated round them.

In this gloomy fituation of the ftate, the Fiqui and Volici, thofe conftant enemies of the Romans, undertook their incurfions, refolved to profit by the inteftine divifions of the people, and advanced within about 10 miles of Rome.

Sut the decemviri, being put in poffeffion of all the military as well as of the civil power, divided their army into three parts ; whereof one continued with Appius in the city, to keep it in awe; the other two were commanded by his colleagues, and were led, one againft the Equi, and the other againft the Sabines. The foman foldiers had now got into a method of punifing the generals whom they dilliked, by fuffering themfelves to be vanquithed in the field. They put it in practice upon this occalion, and Shamefully aban-
111 doned their camp upon the approach of the enemy. The Ro Never was the news of a victory more joyfully receimans defeated. ved at Rome than the tidings of this defeat: the generals, as is always the cafe, were blamed for the treachery of their men: fome demanded that they fhould be depoled; others cried out for a dictator to lead the troops to conqueft : but among the reft, old Sicinius Dentatus the tribune fpoke lis fentimentis
with his"ufual opennefs; and treating "the generals with contempt, fhowed all the faults of their difcipline in the camp, and of their condurt in the field. Appius; in the mean time, was not remifs in obferving the difo pofition of the people. Dentatus, in particular, was marked out for vengeance, and, under pretence of do* ing him particular honour, he was appointed legate, and pat at the head of the fupplies which were fent. from Rome to reinforce the ammy. The office of legate was held facred among the Romans, iss im $\cdot$ it were united the authority of a general, with the reverence due to the priefthood. Dentatus, no way fufpecting Mfurder of his defign, went to the camp with alacrity, where heSicinius was received with all the external marks of refpect. But Dentatus. the generals foon found means of indulging their defire of revenge. He was appointed at the head of 100 men to go and examine a more commodious place for encampment, as he had very candidly affured the commanders that their prefent fituation was wrong. The foldiers, however, who were given as his atlenobants, were affaffins; wretches who had long been minitters of the vengeance of the decemviri, and who now engaged to murder him, though with all thofe apprehenfions which his reputation, as he was called the Roman Achilles, might be fuppofed to infpire. With thele defigns, they led him from the way into the hollow bofom of a retired mountain, where they began to fet upon him from behind. Dentatus, nots too late, perceived the treachery of the decemsiri, and was refolved to fell his life as dearly as he could; he therefore put lis back to a rock, and defented himfelf againit thofe who preffed molt clofely. Though now grown old, he had ftill the remains of his former valour, and killed no lefs than 15 of the affailants, and wounded 3 . The affaffins now therefore, terrified at his amazing bravery, flowered in their javelins upon him at a diftance; all which he received in his hield with undaunted refolution. The combat, though fo unequal in numbers, was managed for fome time with doubtful fuccefs, till at length his affailants bethought themfelves of afcending the rock againit which he food, and thus poured down ftoncs upon him from above. This fucceeded; the old foldier fell beneath their united efforts, after having lhown by his death that he owed it to his fortitude, and not his fortune, that he had come off fo many times victorious. The decemviri pretended to join in the general forrow for fo brave a man, and decreed him a funeral, with the firf military honours: but the greatnefs of their apparent diftrefs, compared with their known hatred, only rendered themi fill more deteftable tu the people.

But a tranfaction fill more atrocious than the former ferved to infpire the citizens with a refolution to break all meafures of obedience, and at laft to reftore freedom, Appius, who fill remained at Rome, fitting one day on his tribunal to difpenfe juftice, faw a maiden of exquifite beauty, and aged about 15 , paffing to one of the public fchools, attended by a matron her nurfe. Conceiving a violent paffion for her, he refolved to oblain the gratification of his defire, whatever thould be the confequence, and found means to inform himfelf of her name and family. Her name was Virginia, the daughter of Virginius a centurion, then with the army in the field; and" The had been contracted to Icilius, formerly a tribure of the people, who had agreed to marizy her it the enci or II

## $\mathrm{ROM} \quad\left[\begin{array}{lll}\mathrm{I} 42\end{array}\right] \quad \mathrm{RO} \mathrm{M}$

Rome, the prefent campaign. Appius, at firt, refolved to break this match, and to efpoule her himfelt : but the laws of the Twelve l'ables had forbidden the patricians to intermarry with the plebeians; and he could not infringe thefe, as he was the enacter of them. Nothing therefore remained but a criminal enjoyment ; which, as he was long uled to the indulgence of his paftions, he refolved to obtain. After haring sainly tried to corrupt the fidelity of her nurfe, he had recourfe to another expedient, ftill more guilty. He pitched upon one Claudius, who had long been the miniter of his pleafures, to affert the beautiful maid was his flave, and to refer the caufe to his tribunal for decifion. Claudius behaved exactly according to his inltructions; for entering into the lchool, where Virginia was playing among her female companions, he feized upon her as his property, and was going to drag her away by force, but was prevented by the people drawn together by her cries. At length, after the firf heat of oppofition was over, he led the weeping virgin to the tribunal of Appius, and there plaufibly expoled his preténfions. He afferted, that fhe was born in his houre, of a female flave, who fold her to the wife of Virginius, who had been barren. That he had feveral credible evidences to prove the truth of what he faid; but that, until they could come together, it was but reafonable the flave fhould be delivered into his cuftody, being her proper mafter. Appius feemed to be fruck with the juftice of his claims. He obferved, that if the reputed father himfelf were prefent, he might indeed be willing to delay the delivery of the maiden for fome lime; but that it was not lawful for him, in the prefent cale, to detain her from her mafter. He therefore adjudged her to Claudius, as his flave, to be kept by him till Virginius fhould be able to prove his paternity. This fentence was received with loud clamours and reproaches by the multitude : the women, in particular, came round Virginia, as if willing to protect her from the judge's fury; while Icilius, her lover, boldly oppofed the decree, and obliged Claudius to take refuge under the tribunal of the decemvir. All things now threatened an open infurrection; when Appius, fearing the event, thought proper to fufpend his judgment till the arrival of Virginius, who was then about II miles from Rome, with the army. The day following was fixed for the trial ; and, in the mean time, Appius fent letters to the generals to confine Virginius, as his arrival in town night only ferve to kindle fedition among the people. Thefe letters, however, were intercepted by the centurion's friends, who fent him down a full relation of the defign laid againft the liberty and the honour of his only daughter. Virginius, upon this, pretending the death of a near relation, got permiffion to leave the camp, and flew to Rome, infpired with indignation and revenge. Accordingly, the next day he appeared before the tribunal, to the afonifhment of Appius, leading his weeping daughter by the hazd, both habited in the deepeft mourning. Claudius, the accufer, was alfo there, and began by making his demand. Virginius next fpoke in turn: he reprefented that his wife had many children; that the had been feen pregnant by numbers; that, if he had intentions of adopting a fuppofititious child, he would have fixed upon a boy rather than a girl; that it was notorious to all, that his wife had hertelf fuckled her own child; and that it was furprifing foch a claim
fhould be now revived, after a 15 years difcontinuance. While the.-father fpoke this with a flern air, Virginia frood trembling by, and, with looks of perfuafive innocence, added weight to all his remontrances. The people ieemed entirely fatisfied of the hardthip of his cafe, ill Appius, fearing what he faid might have dangerous effects upon the mulditude, interrupted him, under a pretence of being fufficiently inftructed in the merits of the caufe, and finally adjudged her to Claudius, ordering the lictors to carry her off. The lictors, in obedience to his commend, foon drove off the throng that preffied round the tribunal ; and now they feized upon Virginia, and were delivering her up-into the hands of Claudius, when Virginius, who found that all was over, feemed to acquiefce in the fentence. He therefore mildly intreated Appius to be permitted to take a latt farewell of one whom he had long confidered as his child; and fo fatilfied, he would return to his duty with frefh alacrity. With this the decemvir complied, but upon condition that their endearments fhould pals in his prefence. Virginius, with the moft poignant anguifh, took his almoft expiring daughter in his arms, for a while fupported hex head upon his breatt, and wiped away the tears that rolled down her lovely vifage : and happening to be near the fhops that furrounded the forum, he fnatched up a knife that lay on the fhambles, and buried the weapon in her breaft ; then holding it up, reeking with the blood of his daughter, "Appius (he cried) by this blood of innocence, I devote thy head to the infernal gods." Thus faying, with the bloody knife in his hand, and threatening deftruction to whomfoever flould oppofe him, he ran through the city, wildly calling upon the people to itrike for freedom, and from thence went to the camp, in order to fpread a like flame through the army.

He no fooner arrived at the camp, followed by a number of his friends, but he informed the army of all that was done, ftill holding the bloody knife in his band. He afked their pardon, and the pardon of the gods, for hasing committed forath an action, but aferibed it all to the dreadful neceffity of the times. The army, already predifpofed, immediately with fhouts echoed their approbation; and decamping, left their generals behind, to take their fation once more upon Mount Aventine, whither they had retired about 40 years before. The other army, which had been to oppofe the Sabines, feemed to feel a like refentment, and came over in large parties to join them.

Appius, in the mean time, did all he could to quell The decemthe difturbances in the city; but finding the tumult in-virare abocapable of controul, and perceiving that his mortal enemies, Valerius and Horatius, were the moft active in oppofition, at firl attempted to find fafety by flight; neverthelefs, being encouraged by Oppius, who was one of his colleagues, he ventured to afiemble the fenate, and urged the puniffment of all deferters. The fenate, however, were far from giving him the relief he fought for ; they forefaw the dangers and miferies that threatened the flate, in ca.e of oppofing the incenfed army ; they therefore difpatched meffengers to them, offering to reflore their former morle of government. To this propolal all the people joyfully afiented, and the army gladly obeyed. Appius, and Orpius one of his colleagnes, woin died by their ovin hands in prifon. The

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{lll}143 & ] & \mathrm{R} \\ \mathrm{O} & \mathrm{M}\end{array}\right.$

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other eight decemvirs went into voluntary exile; and Claudius, the pretended mafter of Virginia, was driven out after them.
New difur- The tribunes now grew more turbulent: they propobances. fed two laws; one to permit plebeians to intermarry with patricians; and the other, to permit them to be admitted to the confulfhip alfo. The fenators received there propofals with indignation, and feemed refolved to undergo the utmolt extremities rather than fubmit to enact them. Howrever, finding their refiftance only increafe the commotions of the flate, they at laft confented to pafs the law concerning intermarriages, hoping that this conceffion would fatisfy the people. But they were to be appeafed but for a very flort time: for, returning to their old cuftom of refufing to enlift upon the approach of an enemy, the confuls were forced to hold a private conference with the chief of the fenate; where, after many debates, Claudius propofed an expedient as the moft probable means of fatisfying the people in the prefent conjuncture. This was, to create fix or eight governors in the room of confuls, whereof one half at leaft fhould be patricians. This project was eagerly embraced by the people; yet fo fickle were the multitude, that though many of the plebeians food, the choice wholly fell upon the patricians who offered them felves as candidates. Thefe new magiftrates were called milutary tribunes; they were at firf but threc, afterwards they were increafed to four, and at length to fix. They had the power and enfigns of confuls; yet that power being divided among a number, each fingly was of lefs authority. The firf that were chofen only continned in office about three months, the augurs having found fomething amifs in the ceremonies of their election.

The military tribunes being depofed, the confuls once more came into office; and, in order to lighten the weight of bufinefs which they were obliged to fuftain, a new office was erected, namely, that of cenfors, to be chofen every fith year. Their bufinefs was to take an eftimate of the number and eftates of the people, and to diftribute them into their proper claffes; to infpect into the lives and manners of their fellow-citizens; to degrade fenators for mifconduct; to difmount knights; and to turn down plebeians from their tribes into an inferior, in cafe of mifdemeanour. The two firt cenfors were Papirius and Sempronius, both patricians; and from this order they coninued to be elected for near 103 rears.

This new creation ferved to refore peace for fume time among the orders; and the trimph gained over the Volfoians, by Gegarius the corful, added to the univerfal fatisfaction that reigned amons the renple.

This calm, however, was but of flort continuance: for, fome time after, a famine prefing hard upon tire ponr. the ufal comolaints acainft the rich were renerved ; and theie, as before. provltie ineffectual. produred new feditions. The confuis were ascufed of neglect in not having laid in nroper quintities of corn: they, homever, difnegarded the murmuts of the ponulace, content IIs with exerting all their care in-altempls to fupply the
preffinz necefiities. Put thangh they di-t all that could be exnected from a\&tive ma: flrotes, in pr viding and aillributing zovifions to the roor ; yet S marius Mfative, a rich knight, who had heught up ail the corn of Tuf. cany, by far outhore them in liberality. This dema-
gogue, inflamed with a fecret defire of becoming powerful by the cententions in the fate, difributed corn in great quantities among the poorer fort each day, till his houfe became the afylum of all fuch as wiked to exchange a life of lahour for one of lazy dependence. When he had thus gained a fufficient number of partizans, he procured large guantities of arms to be brought into his houfe by night, and formed a confpiracy, by which he was to obtain the command, while fome of the tribunes, whom he had found means to corrupt, were to act under him, in feizing upon the liberties of his country. Minucius foon difcovered the plot; and informing the fenate thereof, they immediately formed the refolution of creating a dictator, who thould have the power of quelling the confpiracy without appealing to the people. Cincinnatus, who was now 80 years old, was chofen once more to refcue his country from impending danger. He began by fummoning Mælius to appear; who refufed to obey. He next fent Ahala, his mafter of the horfe, to force him; who, meeting him in the forum, and prefling Mrelius to follow him to $w$ ho is ${ }^{119}$ the dictator's tribunal, upon his refufal Ahala killed killed. him upon the fpot. The dictator applauded the refolution of his officer, and commanded the confpirator's goods to be fold, and lis houfe to be demolihed, diftributing his ftores among the people.

The tribunes of the people were much enraged at the death of Melius; and, in order to punifh the fenate, at the next election, inftead of confuls, infifted upon reftoring their military tribunes. With this the fenate were obliged to comply. The next year, however, the govermment returned to its ancient channel, and confuls were chofen.

The Veientes had long been the rivals of Rome; The dothey had ever taken the opportunity of its internal ftruction diftrefles to ravage its territories, and had even threat- of ve i ice ened its ambaffadors, fent to complain of thefe injuries, with outrage. In war they had been extremely formidzb!e, and had cut off almoft all the Fabian family; who, to the number of 306 perfons, had voluntarily undertaken to defend the frontiers againft their incurfions. It feemed now therefore determined, that the city of Veii, whatever it fhould coft, was to fall; and the Jiomans accordingly fat regularly down before it, prepared for a long and painful refiftance. The ftrength of the place, or the unfkilfulnefs of the befiegeis, may be inferred from the rontinuance of the fiege, wich lafted for 10 vears ; during which time the army continued encamped round it, lying in winter under tents made of the fkirs of beafts, and in fummer dris ving on the operations of the attack. Various was the fuccefs, and many were the commanders that directed the fiecre: fometimes all the befiegers works were deftroyed, and many of their men cut off by fullies from the town; fometimes they were annoyed by an army of Veians, who attempted to bring aflitanre from withoth. A fiege fo thindy feemed to threaten deponulation to Rome itfelf, by draining its forces constinually awes: fo that a law was obliged to be made for all the bachelors to marry the widows of the $\int$ !diers who were flain. In order to carrv it on with greater vigour. Furius Camillos was created dielator, and to lim was intrufted the fole power of managing the long protracted war. Camillus, who, withot intrigue or any flicitation had raifed liasfelf to the finft

## $\mathrm{K} O \mathrm{M} \quad[\mathrm{i} 44] \quad \mathrm{R} O \mathrm{M}$

eminence in the flate, had been made one of the cenfors fome time before, and was conffidered as the head of that office; he was afterwards made a military tribune, and had in this poft gained feveral adrantages over the enemy. It was his great courage and abilities in the above offices that made hin thought mof worthy to ferve his country on this prefling occafion. Upon his appointment, numbers of the people flocked to his ftandard. confident of fuccefs under fo experienced a commander. Confcious, however, that he was unable to take the city by florm, he fecretly wrought a mine into it with vaft labour, which opened into the midit of the citadel. Certain thus of fuccefs, and finding the city incapable of selief, he fent to the fenate, defiring that all who chofe to thare in the plunder of Veii Gould immediately repair to the army. Then giving his men dire\&tions how to enter at the breach, the city was inftantly filled with his legions, to the amazement and confternation of the befieged, who, but a moment before, had refted in perfect fecurity. Thus, like a fecond Troy, was the city of Vcii taken, after a ten years fiege, and with its froils enniched the conquerors; while Camillus himfelf, tranfported with the honour of having fubdued the rival of his native city, triumphed after the mamner of the kings of Rome, having his chariot drawn by four milk-white horfes; a diffinction which did not fail to difgult the majority of the fpectaeors, as they confidered thofe as facred, and more proper for doing honour to their gods than their generals.
His cfual good fortune attended Camillus in another expedition againft the Falifci; he ronted their arny, and befieged their capital city Falerii, which threatened a long and vigorous refiflance. Here a fchoolmafter, who had the care of the children belonging to the principal men of the city, having found means to decoy them into the Roman camp, offered to put them into the hands of Camillus, as the fureft means of inducing the cilizens to a fpeedy furrender. The general was fruck with the treacliery of a wretch whofe duty it was to protect innocence, and not to betray it; and immediately ordered him to be flripped, his hands tied behind him, and in that ignominious manner to be whipped into the town by his own fcholars. This generous behaviour in Camillus effected more than his arms could do: the magiftrates of the town immediately fubmitted to the fenate, leaving to Ca millus the conditions of their furrenter; who only fined them in a fum of money to fatisfy his army, and received them under the protection and into the alliance of Rome.

Notwithfanding the veneration which the virtues of Camillus had excited abroad, they feemed but little adapted to hring over the refpect of the turbulent tribunes at home, as they raifed fome frefh accufation againft him every day. To their other charges they added that of his having concealed a part of the plunder of Veii, particularly two brazen gates, for his own ufe; and appointed him a day on which to appear before the people. Camillus, finding the multitude exafperated againft him upon many accounts, detefting their ingratitude, refolved not to wait the ignominy of a trial ; but, embracing his wife and chitdren, prepared to depart from Rome. He had already paffed as far as one of the gates, unattended on his way, and unlaraented. There he could fupprefs his indignation
no longer ; but, turning his face to the capitol, and lifting up his hands to heaven, intreated all the gods that his country might one day be feufible of their injultice and ingratitude ; and fo faying, he pafied forward to take refuge at Ardea, where he afterwards learned that he had been fined 1500 afes by the tribunes at home.

The Romans indeed foon had reafon to repent their ufage of Camillus; for now a more formidable enemy than ever they had met with threatened the republic: an inundation of Gauls, leaving their native woods, under the command of one Brennus, wafled every thing with fire and froord. It is faid that one Coeditius, a man of the lowelt rank, pretended to have heard a miraculous voice, which pronounced diftinctly thefe words: " Go to the magiftrates, and tell them that the Gauls draw near." The meannefs of the man made his warning defpifed ; though, when the event fhowed the truth of his prediction, Camillus erected a temple to the unknown Deity, and the Romans invented for him the name of Aius Locutius. Mefienger after mefienger arrived with the news of the progrefs and devaftations of the Gauls; but the Romans behaved with as much fecurity as if it had been impofible for ther to have felt the effects of their depredations. At laft envoys arrived at Rome, imploring the affiftance of the republic again:t an army of Gauls, which had made an irruption into Italy, and now befieged their city. The occafion of the irruption and fiege was this: Arunx, one of the chief men of Clufium in Hetruria, had been guardian to a young lucumo, or lord of a lucumony, and had educated him in his houfe from his infancy. The lucumo, as foon as he was of an age to feel the force of paffion, fell in love with his guardian's wife; and, upon the firft difcovery of their intrigue, conveyed her away. Arunx endeavoured to obtain separation for the injury he had received; but the lucumo, by his intereft and money, gained over the magiftrates: fo that the injured guardian, finding no protectors in Hetruria, refolved to make his applieation to the Gauls. The people among all the Celtic nations, to whem he chofe to addrefs himfelf, were the Senones; and, in order to engage them in his quarrel, he acquainted them with the great plenty of Italy, and made them tafte of fome lalian wines. Upon this the Senones refolved to follow him; and a numerous army was immediately formed, which paffing the Alps, under the conduct of their $\mathrm{He}-$ trurian guide, and leaving the Celt $x$ in Italy unmolefted, fell upon Umbria, and poffeffed themfelves of all the country from Ravenna to Picenum. They were about fix years in fettling themfelves in their new acquifitions, while the Romans were carrying on the fiege of Veii. At length Arunx brought the Senones before Clufium, in order to befiege that place, his wife and her lover having fhut themfelves up there.

The fenate, being uriwilling to engage in an open The $\mathrm{Ro}_{\mathrm{o}}^{\mathrm{I} /}$ war with a nation which had never offended them, fent mans fend an embaffy of three young patricians, all brothers, and an embalify of the Fabian family, to bring about an accommodation ${ }^{\text {to them. }}$ between the two nations. Thefe ambaffadors, being arrived at the camp of the Gauls, and conducted into the council, offered the mediation of Rome; and demanded of Brennus, the leader of the Gauls, What injury the Ciufini had done him; or what pretenfions any people from a remote country conid have upon Hetruria?

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Rome. Brennus arifwered proudly, that his right lay in his fword, and that all things belonged to the brave; but that, without having recourfe to this primitive law of nature, he had a juit complaint a gainft the Clufians, who, having more lands than they could cultivate, had refufed to yield to him thofe they left untilled: And what other motives had you yourflves, Romans (faid he), to conquer fo many ncighbouring nations? Y'ou bave deprived the Sabines, the Albans, the Fidenates, the Requi, and the Vollci, of the beft part of their territories. Not that we accufe you of injultice; but it is evident, that you thought this to be the prime and moft ancient of all laws, to make the weak give way to the ftrong. Forbear therefore to intereft yourfelves for the Clufini, or allow us to take the part of the people you have fubdued."
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Imprudent The Fabii were highly provoked at fo haughty an conduet of anfiwer ; but, diffembling their refentment, defired leave the ambaf. fadors

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## The Gauls

 require rhem to $b$ telivered up tc them, but are re fured.to go into the town, under pretence of conferring with the magiftrates. But they were no fooner there, than they began to ftir up the inhabitants to a vigorons defence ; nay, forgetting their character, they put themfelves at the head of the befieged in a fally, in which $Q$. Fabius, the chief of the ambaffiadors, flew with his own hand one of the principal officers of the Gauls. Hereupon Brennus, calling the gods to witnefs the perfidioufnefs of the Romans, and their violating the law of nations, immediately broke up the fiege of Clufum, and marched leifurely to Rome, having fent a herald before him to demand that thefe ambaffadors, who had fo manifeftly violated the law of nations, flould be delivered up to him. The Roman fenate was greatly perplexed between their regard for the law of nations and their afection for the Fabii. The wifeft of the fenate thought the demand of the Gauls to be but juft and reafonable : however, as it concerned perfons of great confequence and credit, the comfeript fathers referred the affair to the people affembled by curix. As the Fabian family was very popular, the curix were fo far from condemning the three brothers, that, at the riext election of military tribunes, they were chofen the firt. Brennus, looking upon the promotion of the Fa. bii as a high affront on his nation, haftened his march to Rome.

As his army was very numerous, the inhabitants of the towns and villages through which he patfed left their habitations at his apuroach ; but he fopped nowhere, declaring that his defign was only to be revenged on the Romans. The fix military tribunes, to wit, O. Fabius, Crefo Fabius, Caius Fabius, O. Sulpitius, O. Servilius, and Sextus Cornelius, marched out of Rome at the head of $40,000 \mathrm{men}$, without either facrificing to the gods or confulting the aufpices; effential ceremonies among a people that drew their courage and confidence from the propitious figns which the augurs declared to them. As moft of the military tribunes were young, and men of more valour than experience, they advanced boldly againft the Gauls, whofe army was $\eta=, 0>0$ ffrong. The iwo armies met near the river Allia, about 60 furlongs from Rome. The Romans that they might not be furrounded by the enemy, extended thicir winge fo far as to make their centre very thin. Their beft troops, to the number of 24,000 men, they poffed between the river and the adioining hills; the reft they placed on the hills. The Gauls firft

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attacked the latter, who being foon put into confufion, the forces in the plain were truck with fuch terror that they fled without drawing their fiwords. In this general diforiter, moll of the toldiers, inflead of returning to Rome, tled to Viii : fome were drowned as they endeavoured to fivim acrofs the 'Tiber; many fell in the purfuit by the fword of the conquetors; and fonne got to Rome, which they filled with terror and confiexnation, it being believed there that all the reit were cut off. The day afier the battle, Bremus marched lis troops into the neighbounhood of Rome, and encamped on the banks of thic Anio. Thither his fcouts brought him word, that the gates of the city lay open, and that not ond Roman was to be feen on the ramiarts. This made lim apprelienfive of fome ambufcade, it being unreatonable to fuppofe that the Romans would abaudon their city to be plandcred and facked without making any refiftance. On this coufideration he advanced flowly, which gave the Rumans an opportunity to throw into the Capitol all the men who were fit to bear arms. They carried into it all the provifions they could get ; 130 and, that they might laft the longer, admitted none into into the cal the place but fuch as were capable of defending it.

As for the city, they had not fufficient forces to defend it; and therefore the old men, wotmen, and cliidren, feeing themfelves abandoned, fled to the neighbouring towns. The Veftals, before they left Rome, took care to hide every thing appropriatcd to the gods which they could not carry off. The two palladiums, and the facred fire, they look with them. When they came to the Janiculus, one Albinius, a plebeian, who was conveying his wife and children in a carriage to a place of fafety, feeing the facred virgins bending under their load, and their feet bloody, made his family alight, put the priefecfes and their gods into the carriage, and conducted them to Cate, a city of Hetruria, where they met with a favourable reception. The Veftals remained at Care, and there continued to perform the ufual rites of religion; and hence thofe rites were called ceremomies. But while the reft of the citizens at Rome were providing for their fafety, about 80 of the moft illuftrious and venerable old =en, rather than fly from their native city, chofe to devote themfelves to death by a vow, which Fabius the high pontiff pronounced in their names. The Romans believed, that, by thefe voluntary devotements to the iuformal gods, diforder and confufion was brought among the enemy. Of thefe brave old men fome were pontifices, others had been confuls, and others generals of armie", who had heen honoured with triumphs. To cor.plete their facrifice with a folemnity and pomp becoming the magnanimity and confancy of the Fomans, they dreffed themefelves in their pontifical, confular, and triumphal robes; and repairing to the forum, feated themfelves there in their curule chairs, expecting the chemy ard death with the greateft conflancy.

At length Brennus, haring fent three days in ufe-R me pillefs precautions, entered the city the fourih day after 'azed ancil the battle. He found the gates open, the walls without defence, and the houfes without inhabi ants. Fiorre appeared to him like a mere delert; and this folitude increafed his asisiety. He could nos belicve, either that all the Rumans were lodged in the Capitol, or the t fo numerous a people the Id ab...idrin the place of their nativity. On the other hand, t.e could nov. here fee

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 Origin of the word ceremonic:





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Rume. any armed men but on the walls of the citadel. Huwever, having firit fecured all the avenues to the Capitol with drong bodies of guards, he gave the reli of his foldiers leave to difperie themielves all over the city and plunder it. Bremus himeif advanced into the forum with the troops under his command, in good order; and there he was firuck with admization at the viespected fight of the verierable old men who had debeted themfelves to death. Their magnificent habits, the majefty of their countenances, the fiance they kept, their modelty and conilancy at the approach of his troops, made him take them for fo many deities: for they continued as motiunlets as fratues, and faw the enemy advance without thowing the leatt concern. The Gauls kept a great while at an awful diftance from them, being afraid to come near them. But at length ene foldier bolder than the reft, having out of curiofity touched the beard of M. Papirius, the venerable old man, not being ufed to fuch familiarity, gave him a blow on the head with his ivory ftaff. The foldier in revenge immediately killed him; and the reit of the Gauls following his example, flaughtered all thofe venerable old men without mercy.

After this the enemy fet no bounds to their rage and fury. They plundered all places, dragying fuch of the Romans as had fitut themfelves up in their houfes into the itreets, and there putting them to the fiword without diltinction of age or fex. Brennus then inThey inven vefted the Capitol; but being repulied with great lof, the ciapitol. i: order to be revenged of the Romans for their refiftance, lee relolved to lay the city in athes, Accordingiy, by his command, the foldiers fet fire to the houles, demolified the temples and public editices, and rafed the walls to the ground. 'Thus was the famous city of Fome entirely deftroyed; nothiag was to be feen in the place where it fiood but a few little hills covered with rains, and a wide wake, in which the Gauls who invefted the Capitol wese encamped. Brennus, findieg be fhould never be able to take a place which nature bad fo well fortified otherwite than by famine, turned the fiege into a blochade. Eut in tle mean time, his army being diflrefied for want of provifions, lie fent -at parties to pillage the fields, and raife contributions in the neighbouring cities. One of there parties appeared before Ardea, where the great Camillus had now fpent two years in a private life. Notwithitanding the affront he had received at Rome, the love he bore his country was not in the leaft diminifhed. The fenate of Ardea being met to deliberate on the meafures to be taken with relation to the Gauls, Camillus, more afflicted at the calamities of his country than at his own banifhment, defired to be admitted into the council, where, with his eloquence, be prevailed upon the Ardeates to arm their youth in their own defence, and refufe the Gauls admittance into their city.

Hereupon the Gauls encamped before the city ; and as they defpifed the Ardeatcs after they had made themfelves mafters of Rome, they preferved neither order nor difcipline in the camp, but fpent whole days in drinking. Hercupon Camiltus, having eafily perfuaded the youth of the city to follow him, marched out of Ardea in a'very dark night, furprifed the Gauls drowned in wine, and made a dreadful flaughter of them. Theofe who reade their efcape under the fhelter of the night fell nest day into the hands of the peafants, by
whom they were maxiacred without mercy. This defeat of the eneny revived the courage of the Komans fcattered about the country, efpecially of thote who had retired to Veii after the untorturate battle of Al , lia. There was not one of them, who did not condemn himfelf for the caile of Camillus, as if ke had been the author of it; and looking upon that great man as their luit refource, they refuived to shoole him for their leadt er. Accordingly, they lent without delay ambafiadurs to hina, befeeching him to take into his protection the fugitive Romans, and the wrecks of the defeat at Ailia. But Camillus would not accept of the command of the troops till the people affemblec by curiæ had legally conferred it upon him. He thought the public authority was lodged in the hands of thole who were fhut up in the citadel, and therefore would undertake nothing at the head of the foman troops till a commiffion was brought him from thence.

To do this was very dificult, the place being invefted on all fides by the enemy. However, one Poatius Cominius, a man of mean birth, tut bold, and very ambitious of glory, undertook it. He put on a lisht liabit, and, providing himtelf with cork to keep the loliger above water, threw himelf into the 1 iber above Rome in the begianing of the nizht, and fuflered himfelf to be carried down with the ftream. At length he came to the foot of the capitol, and landed at a lleep place where the Gauls lad not thought it necellary to polt any centinels. There he mounted with great difficulty to the rampart of the citadel; and having made himelf known to the guards, he was acinitted into the place, and conduled to the magiftrates. I he fenate being 135 immediately afiembled, Pontius gave them an account duchator. of Camillus's victory; and in the name of all the Romans at Veii demanded that great captain for their general. There was not much time fpent in debates: the curix being called together, the act of condemnation which had been prifed on Camillus was abrogated, and he named diefator with onc voice. Pontius was innediately difpatched with the decree ; and the fame good fortune which had attended him to the Capitol accompanied him in his return. Thus was Camillus, from the flate of banifiment, raifed at once to ke fovereign magiferate of his country. His promotion to the com mand was no fooner known, tut fuldiers flocked from all parts to his camp; infonuch that he foon faw him:felf at the head of above 40,000 men, partly Romans and partly allies, who all thought themfelves invincible under fo great a general.

While he was taking proper meafures to raife the The Gau's blockade of the citadel, fome Gauls rambling round the endeaveur place, perceived on the fide of the hill the print of Pon-to furprife tius's hands and feet. 'They obferved likewife, that the the Capimofs on the rocks was in feveral places tom up. From ${ }^{\text {to }}$ thefe marks they concluded, that fomebody had lately. gone up to and returned from the Capitol. The Gau's immediately made their report to Brennus of what they had oblcrved; and that experienced commander laid a defign, which le imparted to nobody, of furprifing the place by the fame way that the Roman had afcended. With this view he chofe out of the army fuch foldiers as had dwelt in mountainous countries, and been accuftomed from their youth to climb precipices. Thefe he ordered, after lie had well exampined the nature of the place, to afcend in the night the fame way that wes

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Rome, marined out for them; climbing two abreair, that one might fupport the otber in gtting up the fleep pats of the precipice.. By this means they advanced with muck difliculity from fork to rock, till they arrived at the foot of the wall. They proceeded with fuch filcnce, that they were not difcovered or heard, either by the centinels who were upon guard in the citadel, or even by tho dogs, that are nually awaked and alarned at the leait noife. But though they eladed the fagacity of the dogs, they could not eicape the vigilance of the geele. $A$ tiock of thefe birds was kept in a court of the Capitol in honour of Juno, and near her temple. Nutwithtanding the want of provifions in the garrifon, they had bsen fpared out of religion; and as thele creatures are naturally quick of hearing, they were alarmed at the firlt approach of the Gauls; fo that ruaning up and down, with their cackling and beating of their wings, they awaked Manlius, a gailant foldier, who fone years bcfore had been conful. He founded an alarm, and was the firit man who mounted the rampart, where he found two Gauls already upon the wall. covered and his battle-ax; but Manlius cut ofi his right hand at one repulfed. blow, and gave the other fuch a puih with his buckler, that he threw him headlong from the top of the rock to the bottom. He, in his fall, dre:s many others with him; and, in the mean time, the Romans crowding to the place, preffed upon the Gauls, and tumbled them one over another. As the nature of the ground would not fuffer them to make a regular retreat, or even to fly, molt of them, to avoid the fwords of the enemy, threw therafelves down the precipice, fo that very few got fafe back to their camp.

As it was the cuftom of the Romans at that time not fuffer any cummendable action to go unrewarded, the tribune Sulpitias affembled his troops the next morning, in order to beflow the military rewards on thofe who, the night before, had deferved them. A nong thefe Manlius was firit named; and, in acknowledgment of the important fervice he had juft rendered the itate, every foldier gave him part of the corn which he received faringly fiom the public ftock, and a little meafure of wine out of his fcanty allowance; an inconfiderable prefent indeed in itelelf, but very acceptable at that time to the perfon on whom it was be:kowed. The tribune's next care was to punith the negligent: accordingly the eaptaix of the guard, who ought to have had an eye ever the centimels, was conde med tordie, and, purfaant to his fentence, thrown down from the top of the C pitol. The Romans extendod their puuithments and rewards even to the animatis. 'Gcele were cver after had in honour at Rome, and a Alock of them always kept at the expence of the public. A golden image of a grofe was erected in memory of them, and a goofe every year carried in triumph upont a foft litter finely adorncd; whilt doge were held in abhorrence by the homans, who every year impaled one of them on a brancht vielder.

The blockade of the Capitol had already lafted feven months; fo that the fimine began to he rery fenfibly felt both by the befieged and betiegers. Camiilus, fince his nomination to the dictatorthip, being mafler t, 8 the cosuntry, had polied firong gnards on all the ronds; fo that the Gauls dared not ilir out for fear of iving cut to pieces. Thus Brenras, who befieged
the Capitol, was befieged limfelf, and fuffered the fatne inconveriences which be made the Romians underao. Belides, a plague raged in bis eamp, which was placed in the midit of the ruins of the demolifhed city, his men lying confufedly among the dead carcafes of the Romans, whorn they had tain, and not buried. So great a number of them died in one quarter of the city, that it was afterwards called Buffa Gallica, or the place where the dead bodies of the Gauls were burnt. But, in the mean time, the Romans in the Capitul: wrere more pinched withs want than the Gauls. They wete reduced to the latt extremity, and at the fame tine ignorant both of the lamentable condition to which the enemy's army was brought, and of the fleps Camilling was taking to relieve them. That great general only waited for a favourable opportunity to fall upon the enemy; but, in the mean time, fuffered them to pine away in their infected camp, not knouing the extreme want the Romans endured in the Capitol, where they were fo deflitute of all forts of provifiona, that they could no longer fubfift. Matters being brought to this fad pafs on both fides, the centinels of the Capitol, and thofe of the enemy's army, began to talk to one another of an accommodation. Their difcourfes came at length to the ears of their leaders, who were not averfe to the defign.

The fenate, not knowing what was become of Camillus, and finding themelves ba:d pinched by hunger, re* folved to enter upon a negotiation, and empowered Sulpitius, one of the military tribunes, to treat with the Gauls; who made no great difficulty in coming to terms, they being no lefs defirous than the Romaris to put an end to the war. In a conference, therefore, betwreen Brennus and Sulpitius, an agreement was made, and fivorn to. The Romans were to pay to the Gauls The ${ }^{138}$ 1000 pounds weight of gold, that is, 45,0001 . Aterling ;cams agree and the latter were to raife the fiege of the Capitol, te pay 1000 and quit all the Roman territories. On the day ap-pound for pointed, Sulpitius brought the fum agred on, and Brennus the feales and weights; for there were no gold fom or filver coins at that time, metals paffing only by weight. We are told, that the weights of, the Gauls were falle, and their fcales untrue; which Sulpitius complaining of, Brennus, inftead of redrefling the injuttice. threrv his fword and belt into the fale where the weights were; and when the tribune afked him the meaning of fo extraordinary a behaviour, the onfy anfiwer he gave was, $V$ 'e victis? "Wo to the conquered !" Sulpitius was fo flung with this hauglty anfwer, that he was for carrying the gold back into the Capitol, and futaining the fiege to the laft extremity; but others thought it advifabie to put up the alfrom, fince they had fuhmitted to a far greater one, which was to pay wny? thing at all.

Daring thefe difputes of the Roman deputies amonst themelves and with the Gaule, Camillus advanced with nis ammy to the very gates of the city; and being there informed of what was doing, he commanded the main body to follow him flowly and in good order, while he, with the choiceft of his men, hafened to the place of the parity. The Romane, overjoyed at his unexpected arrival, opened in make yoom for him as the fuptenie magifrate of the remelalic, gave him an account of the meaty they had made with the Gauls, and complixived of tho wrong Brennus did them in the exerution of jiti

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They had fea:ce done fpeaking, when Camillus cried out, " Carry back this gold into the Capitol; and you, Gauls, retire with your fcales and weights. Rome mult not be redeemed with gold, but with fteel. Brennus replied, That he contravened a treaty which was concluded and confirmed with mutual oaths. "Be it fo (anfwered Camilhs) ; yet it is of no force, having been made by an inferior magiltrate, without the privity or confent of the dictator. 1, who am invefted with the fupreme authority over the Fomans, declare the contract void." At thefe words Brennus flew into a rage; and both fides drawing their fwords, a confufed fcuflle enfued among the ruins of the houfes, and in the narrow lanes. The Gauls, after an inconfiderable lofs, thought fit to retire within their camp; which they abandoned in the night, not caring to engage Camillus's whole army, and, having marched eight miles, encamped on the Gabinian way. Camillus purfued them as foon as it was day, and, coming up with them, gave them a total overthrow. The Gauls, according to Livy, made but a faint refiftance, being difheartened at the

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The Gauls entirely cut of

Fi4t
Difpures about removing to Yeki. Iofs they had fuffained the day before. It was not, fays that author, fo much a battle as a flaughter. Many of the Gauls were flain in the attion, more in the purfuit ; but the greater number were cut off, as they wandered up and down in the fields, by the inhabitants of the neighbouring villages. In fhort, there was not one fingle Gaul le.ft to carry to his countrymen the news of this fatal cataftrophe. The camp of the barbarians was plundered; and Camillus, loaded with fpoils, returned in triumph to the city, the foldiers in their fongs fyling him, Rormulus, Father of his country, and Second founder of Rome.
As the houfes of Rome were all demolifhed, and the walls razed, the tribunes of the people renewed, with more warmeh than ever, an old project which had occafioned great difputes. They bad formerly propofed a law for dividing the fenate and government between the cities of Veili and Kome. Now this lav: was revived; nay, moof of the tribunes were for entirely abandoning their old ruined city, and making Veii the fole feat of the empire. The people were inclined to favour the project, Veii offering them a place fortifed by art and nature, good houfes ready built, a wholefome air, and a fruitful territory. On the other hand, they had no materials for rehuilding a whole city, were quite cshhuffed by misfortunes, and even their flrength was greatly diminitited. This gave them a reluctance to fo great an undertaking, and emboidened the tribunes to inter feditious harangues againff Camillus, as a man 100 ambitious of being the reftorer of Rome. They even infinuated that the name of Romulus, which had bcen given him, threatened the republic wih a new Fing. But the fenate took the part of Camillus, and, being defirous to fee Rome rebuilt, continued him, contrary to cuftom, a full year in the office of dictator; during which time he made it his whole bufinefs to liepfrefs the frong incliation of the people to remove to Veii. Having affembled the curie, be expoltulated with them upon the matter ; and, by arguments drawn from prudence, religion, and glory, prevailed upon them i.) lav afide all thoughts of leaving Rome. As it was feceflary to have the refolution of the people contirmed in the fenate, the dictator reported it to the conleript futhere, leaving every one at full liberty to vote as he
pleafed. While L. Lucretius, who was to give his opinion the firft, was beginning to fpeak, it happened that a centurion, who with his company had been upon guard, and was then marching by the fenate houle, cried out aloud, "Plant your colours, enfign; this is the beft place to flay in." Thefe words were confidered as dictated by the gods themfelves; and Lucretius, taking occafion from them to urge the necelfity of flaying at Rome, "An happy omen, (cried he); I adore the gods who gave it." The whole fenate applauded his words; and a decree was paffed without oppofition for rebuilding the city.

Though the tribunes of the people were defeated by Camillus in this point, they refolved to exercife their authority againft another patrician, who had indeed deferved punifhment. This was Q. Fabius, who had violated the laws of nations, and thereby provoked the Gauls, and occafioned the burning of Rome. His crime being notorious, he was fummoned by C. Martius Rutilus before the affembly of the people, to anfwer for his conduct in his embaffy. The criminal liad reafon to fear the fevereft punifhment: but his relations gave out that he died fuddenly; which generally happened when the accufed perfon had courage enough to prevent his condemnation, and the fhame of a public punilhment. On the other hand, the republic gave Marcus an houfe fituated on the Capitol to MI. Manlius, as a Manlius monument of his valour, and of the gratitude of hisrewarded. fellow-citizens. Camillus clofed this year by laying down his dictatorftip: whereupon an interregnum enlued, during which he governed the flate alternately with P. Cornelius Scipio; and it fell to his lot to prefide at the election of new magiftrates, when L. Valerius Poplicola, L. Virginius Tricoftus, P. Cornelius Coffus, A. Nanlius Capitoinus, L. Emilius Mamercinus, and L. Pofthumius Albinus, were chofen. The firit care of thefe new magiltrates was to collect all the ancient monuments of the religion and civil laws of Rome which could be found among the ruins of the demolifhed city. The laws of the twelve tables, and fome of the laws of the kings, had been written on brafs, and fixed up in the forum; and the treatics made with feveral nations had been engraved on pillars erected in the temples. Pains were therefore taken to gather up the ruins of thefe precious nonuments; and what could not be found was fupplied by memory. The pontifices, on their part, took care to reeftablifh the religious ceremonies, and made allo a lift of lucky and unlucky days.

And now the governors of the republic applied them-The city felves wholly to rehuild the city. Plutarch tells us, rebuilt that as the workmen were digging among the ruins of the temple of Mars, they found Rornulus's augural ftaff untouched by the tlames; and that this was lookedupon as a prodigy, from whence the Romans inferred that their city would continue for ever. The expence of building private houfer was partly defrayed out of the public treafure. The rediles had the direction of the norlss; but they had fo little tafte for order or beauty, that the city, when rebuilt, was even lefs regular than in the time of Romulus. And though in Aliguftus's time, when Rome became the capital of the known world, the temples, palaces, and private houtes, were built in a more magnificent manner than before; yet even then thefe uew decorations did not rectify the faul!s of thie.

## R O M [ $1+9$ ] K O. M

$\underbrace{\text { Rome plan upon which the city had been built after its frof }}$ demolition.

Rome was farce reftored, when her citizens were A general alarmed by the news that all her neighbours were comtion againa bining to her deftruation. The $\bar{E}$ gai, the Volfci, the the Ro- Hetrurians, and even her old friends the Latins and mans. the Hernici, entered into an alliance againft her, in hopes of oppreffing her before ftie had recovered her frength. The republic, under this terrer, nominated Camillus dictator a third time. This great commander, having appointed Servilius to be his general of horfe, fummoned the citizens to take arms, without excepting even the old men. He divided the new levies into three bodies. The firtt, under the command of A. Manlius, he ordered to encamp under the walls of Rome; the fecond he fent into the neighbourhood of Veii ; and marched himfelf at the head of the third, to relieve the tribunes, who were clofely befieged in their camp by the united forces of the Volfci and Latins. Finding the enemy encamped near Lanuvium, on the declivity of the hill Marcius, he pofted limfelf behind it, and by lighting fires, gave the dillreffed Romans notice of his arrival. The Volfci and Latins, when they underfood that Camillus was at the head of an army newly arrived, were fo terrified, that they fhut themfelves up in their camp, which they fortified with great trees cut down in hafte. The dictator, obferving that this barrier was of green wood, and that every morning there arofe a great wind, which blew full upon the enemy's camp, formed the defign of taking it by fire. With this view he ordered one part of his army to go by break of day with fire-brands to the windward fide of the camp, and the other to make a brik attack on the oppofite fide. By this means the enemy were entirely defeated, and their camp taken. Camillus then commanded his mon to extinguifh the flames, in order to fave the booty, with which he rewarded his army. He then left his fon in the camp to guard the prifoners; and, entering the count:y of the Æqui, made himfelf mafter of their capital city Bola. From thence he marched againft the Volfci; whom he entirely reduced, after they had waged war with the Romans for the fpace of 107 years. Having fubdued this untractable people, he penetrated into Hetruria, in order to relieve Sutrium, a town in that country in alliance with Rome, and befieged by a numerous army of Hetrurians. But, notwithfanding all the expedition Camillus could ufe, he did not reach the place before it had capitulated. The Sutrini, being greatly diffreffed for want of provifions, and exhaufted with labour, had furrendered to the Hetrurians, who - had granted them nothing but their lives, and the clothes on their backs. In this deflitute condition they had left their own country, and were going in fearch of new habitations, when they met Camillus leading an army to their relief.

The unfortunate multitude no fooner faw the RoHetruriass. mans, but they threw themfelves at the dictator's feet, who, moved at this melancholy fight, defired them to take a little reft, and refrefir themfelves, adding, that he would foon dry up their tears, and transfer their forrows from the: to their enemies. He imagined, that the Hetrurians would be wholly taken up in plundering the city, whout being upen their guard, or obferving any difcipline. And herein he was not mifaken. The Hetrorians did not dream that the dic-
tator couid come fo fpeedily from fuch a diftance to furprife thern ; and therefure were wholly employed in plundering the houles and carrying of the booty, or feafting on the provifions they bad found in them. Many of them were put to the fword, and an incredible number made prifuners; and the city was reltored to its ancient inhabitants, who had not waited in vain for the performance of the dietator's promife. And now, after thefe glorious exploits, which were finifhed in fo fhort a time, the great Camillus entered Rome in triumph a third time.

Camillus having refigned his dictatorfliip, the remublic chofe fix new military tribunes, Q. Quinctius, !. Servius, L. Julius, L. Aquilius, L. Lucretius, and ser. Suipitius. During their adminiftration the country of the Equi was laid wafte, in order to put it out of their power to revolt aness ; and the two cities of Cortuofa and Contenebra, in the lucumony of the Tarquinientes, were taken from the Hetrurians, and entirely demolithed. At this time it was thought proper to repair the Capitol, and add new works to that part of the thil where the Gauls had endeavoured to fcale the c: d: I Thefe works were effecmed very beautiful, as Live is forms us, even in the time of Auguttus, atter the city was embellithed with moft magnificent decorations.

And now Rome being reinftated in her memer flourihing condition, the tribunes of the people, who had been for fome time quiet, began to rencw their feditious harangues, and revive the old quarrel about the divifion of the conquered land. The patricians had appropriated to themfelves the Pomptin territory latcly taken from the Volfci, and the tribunes laid bold of this opportunity to raife new diffurbances. But the citizens being fo drained of their money that they had not enough left to cultivate new farms and ftock them with cattle, the declamations of the tribunes made no impreffion upon their minds; fo that the project vanibhed. As for the military tribunes, they owned that their election had been defective; and, left the irregularities of the former comitia thould be continued in the fucceeding ones, they voluntarily laid down their office. So that, after a fhort interregnum, during which M. Manlius, Ser. Sulpitius, and L. Valerius Potitus, governed the republic, fix new military tribunes L. Papirius, C. Sergius, L. Æmilius, L. Menenius, L. Valerius, and $C$. Cornelius, were chofen for the enfuing year, which was fpent in works of peace. A temple, which had been vowed to Mars during the war with the Gauls. was built, and conlecrated by ' ${ }^{\prime}$. (inctius, who prefided over the affairs of religion. As there hat hitherto been but ferv Rnman tribes beyond the Tiber which had a right of fuffrage in the comitia, four new ones were added, under the name of the S:ellatume, Iramontina, Sabatina, and Arnienis; fo that the tribes were n:ow in all 25 , which enjoyed the fame rights and privileges.

The expectation of an approaching war incuced the eviboure? $\frac{1,7}{}$ centuries to clioofe (amillus one of the maliany tritunes power confor the next year. His collesgues uere Ser. Corntlis c, ierred ond O. Servilius. I.. ()uinctius, L. Horatitis, and IP. Va- Camullus ierius. As all thefe were men of moderation, they agreed to inven Camillus with the fole managememt of affairs in time of war; nud accordingly in tull renate transferred all thcir power into his hands; fo th..t ho became in effect dictator. It had been alrentiy deter-.

Rime.
Rime.

R R (2) $\Rightarrow$ mined in the fenate to turn the arns of the republic againit the Hetruriaks; but, upon advice that the Antiates had entered the Pomptin territuly, and obliged the Romans who had taken poffelfion of it to retire, it was thought neceliary to humble them before the republic engaged in any uther enterprife. The Antiates had joined the Latins and Hernici near Saticum; fo that the Romans, being renified at their predigions numbers, fhewed themfelves very backward to engege: which Camillus perceiving, he inftantly mounted his horfe, and riding through all the tanks of the anmy, encouraged them by a proper feeech; after which he difmounted, took the next itandard-bearer by the land, led him towards the enemy, and cried out, Soldiers, advance. The foldiery were ahamed not to follow a general who expofed himfelf to the firft attack; and therethe Antiates, scc. a great defeat. fore, having made a great fhout, they fell upon the enemy with incredible fury. Camillus, in order to in.creale their eagernefs flill more, commanded a titandard to be thrown into the middle of the enemy's battalions ; which made the foldiers, who nere fighting in the firlt ranks, exert all the refolution they could to recover it. The Antiates, not being able any longer to make head againt the Ronans, gave way, and were entirely defeated. The Latins and Hernici feparated from the Volfci, and returned home. The Volfci, feeing themfelves thus abandoned by their allies, took refuge in the neighbouring city of Satricum; which Camillus immediately invefted, and took by affault. The Vollci threw dornn their arms, and furrendered at difcretion. He then left his army under the conmmand of Valerius; and returned to Rome to folicit the confent of the fenate, and to make the neceflary preparations for undertaking the fiege of Antium.

But, while he was propofing this affair to the fenate, depulies arrived from Nepet and Sutrium, two cities in alliance with Rome in the neighbourhood of Hetruria, demanding fuccours againit the Hetrurians, who threatened to beiege thefe two cities, which were the keys of Hetruria, Hereupon tbe expedition againft Antium was laid afide, and Camillus commanded to hation to the relief of the allied cities, with the troops which Servilius lad kept in readinefs at Rome in cafe of an emergency. Camillus immediately fel out for the jeew war; and, apon his arsival before Sutrium, found that iraportant place not only befieged, but almoft taKen, the Hetturians having made themflves maters of fome of the gates, and gained poffeflion of all the avemyes teading to the city. However, the inhabitents no igoner heard that Camillus was come to their relief, but they recovered their courage, and, by barricadocs made in the ffretes, prevented the enemy from making themfoclves raathers of the whole cily. Camillus in the mean time having duvided his army into two bodics, ordered Yalerius to maycla, found the walls, as if he defigned to fcale them, while he with the other undertook to charge the Helturians in the rear, force bis way into the city, and, flut up the enerry between the befieged and his troops. The Fiomans no fooncr appeared but the Hetrurians betaok themfelyes to $a$ diforderly fight through a gate which was not invelted. Canillus's troops made a flyendful flaugher of then withius the city, while. Va1erinss put great unumbis of them to the fyord, without: the, walls. From reconquering Sutrium, Chmillus baf: itened to the eflief of Nepet. Eut that city jeing hato-
ter aftued io the Hetruigns than to the fomans, had voluntarily fibmitted to the former. Wherefore Ciamillus, having invefted it with his whole amny, took it by affault, put all the Hetrurian foldiess without diftincrion to the fword, and condemned the authors of the revolt to die by the axes of the lictors. Thus ended Camsilhs"s military tribunellip, in which he acquired sio let's reputation than he had done in the mof glorious of his dicatatorhips.

In the following magiflacy of fix military tribunes, Ambition a dangerous fedition is laid to have taken place through ol M1. Masen the ambition of Marcus Manlius, who had faved lise capitol from the Gauls in the manner alieady related. Though this man had pride enough to defpifie all the other great men in Rume, yet he envied Camillus, and took every opportunity of magnifying his oun exploits beyond thofe of the difator. But not finding fuch a favourable reception from the nobility as he defired, he concerted meafures with the tribunes of the people, and frove to gain the aficections of the multitude. Not content with rerewing the propofal for the diftribution of conquered lands, he alfo made himielf an advocate for infolvent debtors, of whom there was now a great number as moft of the lower clals bad been obliged to borrow money in order to rebuild their houfes. The fenate, alarmed at this oppoition, created A. Cornelius Coflius dictator, for which the war with the Volici afforded them a fair pretence. Manlius, however, fill continued to inflame the people againt the patricians. Befides the moft unbounded perfonal generofity, he held affemblies at his own hourf (in the citadel), where be confidently gave out that the fenators, not content with being the poffefiors of thofe lands which ought to have being equally divided among all the citizens, had concealed, with an intent to appropriate it to their own ufe, all the gold which was to have been paid to the Gauls, and which would alone be fufficient to difcharge the debts of all the pqor plebeians; and he moreover promifed to fhow in due time where this treafure was concealed. For this ufiertion he was brought before the dicator; who cormmanded him to difcover where the pretended treafure was, or to confefs openly before the whole afiembly that he had inmakered the.fenate.Manlius replied, that the di\{ator himfcif, ard the prino cipal perfons in the funste, could oully give the proper intelligence of this treafure, as they had becn the moft astive in fecuring it. Upen this lie was cormmited to prifon; but the people made fuch divturbance, that the fenate wero, foon:after fain to releaft him. By this he way embloldened to continue his formine presfices; till at latt the femate gave an order to the militiary tihunes to toke care that the commontrealh fuficied so detriment from the pernicious projects of Marcus Manlius, and even gave then authority to afialinate him, if they found it neceflian fo to do. At latt, howceer, he was publicdy accufed of afpiring to be king; however, the people, it is faid, wecre fư frucki with gratitude, on accerut of his having delivered the capiol fiom the Ciauls, that they could not refolve to condemn him. But the military tribues, who, it feoms, were bent on his deftrualion, haxing appointed the affcmbly to be held willuut the city, there obtained their will. - Mank hus who is sconwas thrown headiong fron the capitol. iffelf: it was denred thenceforth decreed that no patrician fhould dwell in and execothe eapitol ger citadd?; anid the Mantiay. faw,ily refolved

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{llllll}151 & \mathrm{R} & \mathrm{O} & \mathrm{M}\end{array}\right.$

## Rome.

that no member' of it fhould ever afterwa:ds bear the preenömen of Marcus. No fooner was Manlius dead, hottever, than the people lamented his fate; and becaufe a plazne broke out foon after, they imputed it to the anger of the gods on account of the delliruction of the hero who lad faved the ltate (1).

The Romans, havlng now triumphed over the Sabines, the Etrtrians, the Latine, the Hernici, the Equi, aind the Volfcians, began to look for greater conquefts. They accordingly turned their arms againtt the Samnites, a people about roo miles ealt from the city, defcended from the Sabines, and inhabiting a large tract of fouthern Italy, which at this day makes a confiderable part of the kingdom of Naples. Valerius Corvus and Cornelius were the two confuls, to whofe care it firf fcll to manage this dreadful contention between the rival ftates.

Valerits was one of the greatert conmmanders of his time; he was furnamed Corvus, from a Atrange circumitance of being affilled by a crove in a fingle combat, in which he fought and killed a Gaul of a gigantic thature. To his collcague's care it was configned to lead an army to Samnium, the enemy's capital; while Corvus was fent to relieve Capua, the capital of the Companians. The Samnites were the bravelt men the Romans had ever yet encouritered, and the contention between the two nations was managed on both fides with the moft determined refolution. But the fortune of Rome prevailed; the Samnites at length fled, averring, that they were not able to withitand the fierce looks and the fire darting eyes of the Romans. The other conful, however, was not at firft fo fortunate; for having unwarily led his army into a defile, he was in danger of being cut off, had not Decius, a tribune of the army, polfeficd himfelf of a hill which commanded the encmy: fo that the Samnites, being attacked on either fide, were defeated with great flaughter, no lefs than 30,000 of them being left dead upon the field of battle.

Some time afier this victory, the foldiers who were fationed at Capua mutinying, forced Quintius, an old and eminent foldier, who was then refiding in the country, to be their leader; and, conducted by their rage more than their general, came within eight miles of the city. So terrible an enemy, a?mof at the gates, not a little alarmed the fenate; who immediately created Valerius Corvas dictator, and fent him forth with another army to oppofe them. The two armies were now drawn up againf each other, while fathers and fons beheld themfelves preparing to engage in oppofite caufes; but Corvus, knoring his influence among the foldiery, infead of going forward to meet the mutineers in an hoftile manner, went with the moft cordial friendfhip to embrace and expoftulate with his old acquaintances. His conduct had the defired effect. Quintius, as their fpeaker, only defired to have their defection from their duty forgiven; and as for himelelf, as he was innocent
of their confiracy, he had no reafon to folicit pardor Rome. for his offences.

A war between the Romans and the Latins followed foon after; but as their habits, arms, and language, were the fame, the moil exadt difcipline was neceflaryto prevent confufion in the eugagement. Orders, therefore, were iffiued by Mar lins the conful, that no foldi=r thould leave his ranks upon whatever provoc: tion; and that he ftould be certsinly put to death wha thould offer to do othervile. With thefe injunctions, both armies were drawn out in array, and ready to begin; when Metius, the general of the enemy's cavairy, pufted forward from his lines, and clatilenged anyknight in the Roman army to fingle combat. For fome. time there was a general paufe, no foldier offering to dilobcy his orders, till 'Titus Manlius, the conful's own fon, burning with thame to fee the whole body of the Romans intimidated, boldly fallied out againit his adverfary. The foldiers on both fides for a while fufpended the general engagement to he fpectators of this fierce encounter. Manlias killed his adverfary ; and then defpoiling him of his armour, returned in triumph to his father's tent, where he was preparing and giving. orders relative to the engagement. Howfocver he might have been applauded by his fellow-foldiers, being as yet doubtful of the reception he fhould find from his. father, he came, with hefitation, to lay the eneray's fpoils at his feet, and with a modert air infinuated, that what he did was entirely from a lipitit of hereditary virtue. But he was foon dreadfully made fenfible of his error, when his father, turning away, ordered him to be led publicly forth before the army, and there to have his head flruck off on account of his difobeying orders. The whole army was ftruck with horror at this unnatural mandate : fear for a while kept them in furpenfe; but when they faw their young champion's head tlruck off, and his blood ftreaming upon the ground, they could no longer contain their execrations and their groans. His dead body was carried forth without the camp, and being adorned with the fpoils of: the vanquifhed enemy, was buried with all the pomp of military ditrefs.
In the mean time, the battle joired with mutual a biady ${ }^{153}$ fury; and as the two armies had often fought under latic whth the fame leaders, they combated with all the animo-the Lat ns, fity of a civil war. The Latins chiefly depended on their bodily flrength; the Romans, on their invincible courage and conduct. Forces fo nearly matched feemed only to require the protection of their duilies to turn the fcale of vitory; and, in fact, the augurs had forctold, that whatever part of the Roman army fhould be diftreffed, the commander of that part fhould devote himfelf for his country, and die as a facrifice to the immortal gods. Menlius commanded the right wing, and Decius led on the left. Both fides fought for fome time with doublful fuccefs, as their courage was equal ; but, after a time, the left wing of the Rowan army began to. give
(A) The above accounts are exactly conformable to what is to be found in the teft Latin hillories; neverthelefs they are far from being reckoned univerfally authentic. Mr Hooke, in his annotations on the death of M. Manlius, has given very ftrong reafons againft believing either that Camillus refcued the gold from the Chauls; or that Manlius was condemned. See Hooke's Raman IIjfory, vol. iiv p. 326, eifeq.

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{lll}152\end{array}\right] \quad \mathrm{R} O \mathrm{M}$

Rome. give ground. It was then that Decius, who command ed there, refolved to devote himfelf for his country, and to offer his own life as an atonement to fave his army. Thus determined, he called out to Manlius with a lowd voice, and demanded his inftructions, as he was the chief pontiff, how to devote himfelf, and the form of the words he thould ufe. By his directions, therefore, being clothed in a long robe, his head covered, and his arms flretched forward, ftanding upon a javelin, he devoted himfelf to the celeftial and infernal gods for the fafety of Rome. Then arming himfelf, and mounting on horfeback, he drove furioully into the mida of the enemy, carrying terror and confternation wherever he came, till he fell covered with wounds. In the mean time, the Roman army confidered his devoting himfelf in this manner as an affurance of fuccefs; nor was the fuperftition of the Latins lefs powerfully influenced by his refolution; a total rout began to enfue: the Romans prefled them on every fide; and fo great was the carnage, that fcarce a fourth part of the enemy furvived the defcat. This was the laft battle of any confequence that the Latins had with the Romans : they were forced to beg a peace upon hard conditions; and two years after, their ftrongeft city, Pædum, being taker, they were brought under an entire fubmiffion to the Roman power.

A fignal difgrace which the Romans fuffained about this time in thei: conteft with the Samnites, made a paufe in their ufual good fortune, and turned the fcale for a while in the enemy's favour. The fenate having denied the Samnites peace, Pontius their general was refolved to gain by ftratagem what he had frequently loft by force. Accordingly, leading his army into a defile called Claudium, and taking poffeffion of all its outlets, he fent 10 of his foldiers, habited like flepherd;, with directions to throw themfelves in the way the Romans were to march. The Roman conful met them, and taking them for what they appeared, demanded the route the Samnite army had taken; they, with feeming indifference, replied, that they were gone to Luceria, a town in Apulia, and were then actually befieging it. The Roman general, not fufpecting the ftratagem that was laid againft him, marched directly by the florteft road, which lay through the defiles, to relieve the city; and was not undeceived till he faw his army furrounded, and blocked up on every fide. Pontius thus having the Romans entirely in his power, firlt obliged the army to pafs under the yoke, having been previoufly flripped of all but their garments; he then flipulated that they fhould wholly quit the territories of the Samnites, and that they fhould continue to live apon terms of former confederacy. The Rumans were conftrained to fubmit to this ignomininus treaty, and marched into Capua difarmed and half naked. When the army arrived at Rome, the whole city was moff furprifingly afflikled at their flameful return; nothing but grief and refentment was to be feen, and the whole city was put into mourning.

But this was a tranfitory calamity : the war was carried on as ufual for many years; the power of the Sumnites declining every day, while that of the Romans continually increafed. Under the conduct of $\mathrm{Pa}-$ pirius Curfor, who was at different times conful and diektator, repeated triumphs were gained. Fabius Maximus alfo had his flare in the alory of conquering them ; and Decius, the fon of that Decius whom we faw de-
voting himfelf for his country about 40 years before, followed the example of his father, and rullied into the midit of the enemy, imagining that he could fave the lives of his countrymen with the lofs of his own.

The fuccefs of the Romans againt the Samnites Pyrrhus alarmed all Italy. The Tarentines in particular, whoking of had long plotted underhand againt the republic, nowv Epirus inopenly declared themfelves; and invited into Italy vited into Pyrrhus king of Epirus, in hopes of seing able by Tarentines. his means to fubdue the Romans. The offer was readily accepted by that ambitious monarch, who had nothing lefs in view than the conqueft of all Italy.Their ambaffadors carried magnificent prefents for the king, with inftructions to acquaint him, that they only wanted a general of fame and experience; and that, as for troops, they could themfelves furnilh a numerous army of 20,000 horfe and 350,000 foot, made up of Lucanians, Meflapians, Samnites, and Tarentimes. As foon as the news of this deputation were brought to the Roman carrap, Æemilius, who had hitherto made war on the Tarentincs but gently, in hopes of adjufting matters by way of negociation, took other meafures, and began to commit all forts of hoftilities. He took cities, flormed caflics, and laid the whole country wafte, burning and deftroying all before him. The Tarentines brought their army into the field; but Æmilius foon obliged them to take refuge within their walls. However, to induce them to lay atide the defign of receiving Pyrrhus, he ufed the prifoners he had taken with great moderation, and even fent them back without ranfom. Thefe highly extolled the generofity of the conful, infomuch that many of the inhabitants were brought over to the Roman party, and they all began to repent of their having rejected a peace and fent for Pyrrhus.

But, in the mean time, the Tarentine ambafiadors arriving in Epirus, purfuant to the powers they had received, made an abfolute treaty with the king; who iminediately fent before him the famous Cyneas, with 3000 men , to take poffeflion of the citadel of Tarentum. This eloquent minifter foon found means to depofe Agis, whom the Tarentines had chofen to be their general and the governor of the city, though a fincere friend to the Romans. He likewife prevailed upon the Tarentines to deliver up the citadel into his hands; which be no fooner got poffeflion of, than he difpatched meffengers to Pyrrhus, foliciting him to haften his departure for Italy. In the mean time, the conful tic milius, finding that he could not attempt any thing with fuccefs againt the Tarentines this campaign, relolved to put his troops into winter-quarters in $\Lambda$ pulia, which was not far from the territory of Tarentum, that was foon to become the feat of the war. As he was obliged to pafs through certain defiles, with the fea on one fide and high hills on the other, he was there attacked by the Tarentincs and $E_{p}$ irots from great numbers of barks fraught with balifte (that is, engines for throwing fones of a vaft weight), and from the hills, on which were pofted a great many archers and flingers. Hereupon Amilins placed the Tarentine prifoners between him and the encmy; which the Tarentines perceiving, foon left off molefling the Romans, out of compaffion to their own countrymen; fo that the Romans arrived fafe in Apulia, and there took up their winterquariers.

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Rome. The next year Emilius was continued in the command of his own troops, with the title of procon/ul; and was ordered to make war upon the Salentines, who had declared for the Tarentines. The prefent exigence of affairs obliged the Romans to enlift the proletarii, who were the meaneft of the people, and therefore by way of contempt called proletarii, as being thought incapable of doing the ftate any other fervice than that of peopling the city, and focking the republic with fubjects. Hitherto they had never been fuffered to bear arms; but were now, to their great fatisfaction, enrolled as well as others. In the mean time Pyrrhus arrived at Parentum, having narrowly eflaped thipwreck; and being conducted into the city by his faitlful Cyneas, was re-
ravages there; and having taken and fortifed one of their caftles, waited in that neignbourhood for Pyrrhus. The king, though he had not yet received any tuccours from the Samnites, Meflapians, and other allies of the Tarentines, thought it highiy dithonourable to continue 1lut up in a city, while the Romans were ravaging the country of his friends. He therelore took the field with the troops he had brought with him fiom Epirus, fome recruits of Tarentum, and a fmall number of ltalians. But before he began tioftilities, he wrote a letter to Læevinus, commanding him to difband his army; and on his refufal, immediately marched towards thofe parts where Lævinus was waiting for him. The Romans were encamped on the hither tide of the river Siris; and Pyrrhus appearing on the oppofite bank, made it his firft bufnefs tu reconnoitre the cnemy's camp in perfon, and fee what appearance they made. With this view he croffed the river, attended by Megacles, one of his othicers and chief favourites; and having obferved the conful's intrenchments, the manner in which he had pufied his advanced guards, and the good order of his camp, he was greatly furprifed; and addrefling Megacles, "Thefe people (faid he) are not fuch barbarians as we take them to be: let us try them before we coudemu them." On his return, he changed his refolution of attacking them; and, fhutting limfelf up in his intrenchments, waited for the arrival of the confederate tro pis. In the mean time, he pofted ftrong guards along the river, to prevent the enemy from pafling it, and corinually fent out focuts to difcover the defigns, and w..ch the motions of the conful. Some of theie being taken by the advanced guards of the Romans, the conful himfelf led them through his camp, and having thened them his army, fent them back to the king, telling them, that he had many other troops to flow them in due time.

Lxvinus being determined to draw the enemy to a His firtt battle before Pyrrhus received the reinforcements he battle with expected, having harangued his troops, marched to the the Kobanks of the Siris; and there drawing up his infantry ${ }^{\text {alarss }}$ in battalia, ordered the cavalry to filo off, and march a great way about, in order to find a pallage at fome place not deiended by the enemy. Accordingly, they paffed the river without being obferved; and falling upon the guards which Pyrrhus had pofted on the banks overagainft the confular army, gave the infantry an opportunity of crofling the river on bridges which Leevinus had prepared for that purpofe. But before they got over, Pyrrhus, hallening from his camp, which was at fome diflance from the river, hoped to cut the Roman army in pieces while they were difordered with the difficulties of paffing the river, and climbing up the fleep banks; but the cavalry covering the infantry, and flanding between them and the Epirots, gave them time to form themfelves on the banks of the river. On the other hand, Pyrrhus drew up his men as faft as they came from the camp, and performed fuch deeds of ralour, that the Romans thought him worthy of the great repulation be had acquired.

As the cavalry alone had hitherto engaged, Pyrrhus, who confided moft in his infantry, haftened back to the camp, in order to bring them to the charge; but took two precautions hefore he began the attack: the firf was, to ride through the ranks, and fhow himfelf to the whole ariny; for his horfe having been hilled under him in the firf onfet, a report had been fpread that he was
dain:

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Rome. flain: the fecond was, to change his habit and helmet with Megacles; for having been known in the engagement of the horfe by the richnefs of his attire and armour, many of the Romans had aimed at him in particular, fo that he was with the utmoft difficulty taken and faved, after his horfe had been killed under him. Thus difguifed, he led his phalanx againt the Roman legions, and attacked them with incredible fury. Lævinus fuftained the fhock with great refolution, fo that the victory was for many hours warmly difputed. The Romans gave feveral times way to the Epirots, and the Epirots to the Romans; but both parties rallied again, and were brought back to the charge by their commanders. Megacles, in the attire and helmet of Pyrthus, was in all places, and well fupported the character he bad affumed. But his difguife at laft proved fatal to him: for a Roman knight, by name Dexter, taking him for the king, followed him wherever he went; and having found an opportunity of difcharging a blow at him, ftruck him dead on the fpot, fripped him of his helmet and armour, and carried them in triumph to the conful, who, by fhowing to the Epirots the fpoils of their king, fo terrified them, that they began to give ground. But Pyrrhus, appearing bare-headed in the firt files of his phalanx, and riding through all the lines, undeceived his men, and infpired them with new courage.

The advantage feemed to be pretty equal on both fides, when Lævinus ordered his cavalry to advance; which Pyrihus obferving, drew up 20 elephants in the front of his army, with towers on their backs full of bowmen. The very fight of thofe dreadful animals chilled the bravery of the Romans, who had never before feen any. However, they ftill advanced, till their horfes, not being able to bear the fmell of them, and frightened at the ftrange noife they made, either threw their riders, or carried them on full fpeed in fpite of their utmof efforts. In the mean time, the archers, difcharging fhowers of darts from the towers, wounded feveral of the Romans in that confufion, while others were trod to death by the elephants. Notwithftanding the diforder of the cavalry, the legionaries ftill kept their ranks, and could not be broken, till Pyrrhus at-
wounds; that they had all fallen in the polls affigned them, itill held their fwords in their bands, and lhowed, even after death, a certain martial air and fiercenefs in their faces; and on this occafion it was that he utteredithofe famous words: "O that Pyrrhus had the Romans for his foldiers, or the Romans Pyrrhus for their leader ! together, we thould fubdue the whole worid."

The king of Epirus underfood the art of war too pyrthus ${ }^{1} 59$ well not to reap what advantage he could from his vic-duces feretory. He broke into the countries in alliance with the raltowns. Fomans, plundered the lands of the republic, and made incurfions even into the neighbourhood of Rome. Many cities opened their gates to him , and in a il.ort time he made himfelf mafter of the greateft part of Campania. While he was in that fruitful province, fubfiting his troops there at the expence of the Romans, he was joined by the Samnites, Lucanians, and Meffapians, whom he had fo long expected. After having reproached them for their delay, he gave them a good thare of the fpoils he had taken from the enemy; and having by this means gained their affections, he marched without lofs of cime to lay fiege to Capua: but Lævinus, having already received a reinforcement of two legions, threw fome troops into the city; which obliged Pyrrhus to drop his defign, and, leaving Capua, to march flraight to Naples. Lævinus followed him, haraffing his troops on their march; and at length, by keeping his army in the neighbourhood, forced him to give over all thoughts of making bimfelf matter of that important city. The king then, all on a fudden, took his route towards Rome by the Latin way, furprifed Fregellæ, and, marching through the country of the Hernici, fat down before Prænefte. There, from the top of a hill, he had the pleafure of feeing Rome; and is faid to have advanced fo near the walls, that he drove 2 cloud of duft into the city. But he was foon forced to retire by the other conful T. Coruncanius, who, having reduced Hetruria, was juft then returned with his victorious army to Kome. The king of Epirus, therefore, having no hopes of bringing the Hetrurians into his intereft, and feeing two confular armies ready to fall upon him, raifed the fiege of Prænefte, and haftened back into Campania; where, to his great furprife, he found Levinus with a more numerous army than that which he had defeated on the banks of the Siris. The conful went to meet him, with a defign to try the fate of another battle; which Pyrrhus being unwilling to declinc, drew up his army, and, to ftrike terror into the Roman legions, ordered his men to beat their bucklers with their lances, and the leadcrs of the elephants to force them to make a hideous noife. But the noife was returned with fuch an univerfal thout by the Romans, that Pyrrhus, thinking fo much alac rity on the part of the vanquifhed too fure a prognoftic of victory, altered his mind; and, pretending that the auguries were not favoutable, retired to Tarentum, and put an end to the campaign.

While Pyrihus continued quiet at Tarentum, he fie 11 clines had time to retlect on the valour and conduct of the to peace. Romans; which made him conclude, that the war in which he was engaged mult end in his ruin and difgrace, if not terminated by an advantagecus peace. He was therefore overjoyed when he heard that the fenate had determined to fend an honourable emlafly to hin, not duubting but their errand was to propofe

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Rome. terms of peace. The ambaffadors were tiaree men of diftinguiked merit; to wit, Cornelius Dolabella, who was famous for the fignal victory he had gained over the Senones, Fabricius, and Nmilius Pappus, who had been his colleague in the confulate two years before. When they were admitted to an audience, the only thing they demanded was a furrender of the prifoners, either by the way of exchange, or at fuch a ranfom as fhould be agreed on; for Pyrrhus, in the late battle, had made 1800 prifoners, moft of them Roman knights and men of diltinction in the republic. They had fought with great bravery, till their horfes, frightened with the roaring of the king's elephants, had either thrown them, or obliged them to difmount; by which unforefeen accident they had fallen into the enemy's hands. The fenate, therefore, pitying the condition of thofe brave men, had determined, contrary to their cuftom, to redeem them. Pyrrhus was greatly furprifed and difappointed when he found that they had ne other propolals to make; but, concealing his thoughts, he only anfwered, that he would confider of it, and let them know his refolution. Accordingly, he affembled his council : but his chief favourites were divided in their opinions. Milo, who commanded in the citadel of Tarentum, was for coraing to no compofition with the Romans ; but Cyneas, who knew his mafier's inclioation, propoled not only fending back the prifoners without ranform, but difpatching an embafly to Rome to treat with the fenate of a lalling peace. His advice was approved, and he himfelf appointed to go on that embaffy. After thefe refolutions, the king acquainted the ambaffadors, that be intended to releafe the prifoners without ranforn, fince he had already riches enough, and defired nothing of the republic but her friendihip. Afterwards he had feveral conferences with Fabricius, whofe virtue he had tried with mighty offers of riches and grandeur; but finding him proof againft all temptations, he refolved to try whether his intrepidity and courage were equal to his virtue. With this view, he caufed an elephant to be placed behind a curtain in the hall where he received the Roman ambafiador. As Fabricius had nover feen one of thofe beafts, the king, taking a turn or two in the hall with him, brought hiun within the elephont's reach, and then caufed the curtain to be drawn all on a fudden, and that monftrous animal to make his ufual noile, and even lay his trunk on Fabricius's head. But the intrepid Roman, without betraying the leait fear or concern, " Does the great king (laid he, with furprifing calmnefs), who could not fagger nee with his offers, think to trighten me with the braying of a bcaft ?" Pyrrhus, aftonithed at his immovable conftancy, invited him to dine with him; and on this occafion it was, that the converfation turning upon the Epicurcan philofoply, I'abricius made that celebrated exclamation, " $O$ that Pyrrkus, both for Rome', fake and his own, had placed his happinefs in the boa ed indolence of Epicurus."

Every thing Pyrrinus heard or faw of the Fom ris incre fed his earnelln-fs for seace. He fent for the lise am a Tadors, releafed 200 of the prifoners without ranfom, and fuffered the reft, on their parole, to levirn to Rome to celubrate the Saturnalia, or feals $\cdot$. S. Urn, in thair ow families. Having by this obliging hehaviour g ined the gond-will of the lioman ambaffadors, he Eent Cyneas to Rome, almolt at the fam time that they
left Tarentum. The inflructions he gave this faithful minitter, were, to bring the Romans to grant thefe three articles: 1. That the Jarentines fhould be included in the treaty made with the king of Epirus. 2. That the Greek cities in Italy thould be fuffered to enjoy their laws and liberties. 3. That the republic Qiould reftore to the Samnites, Lucanians, and Bruttians, all the places the had taken from them. Upon thele conditions, Pyrrhus declared himfelf ready to forbear all further hofilities, and conclude a lafting peace. With thefe inftructions Cyneas fet out for liome; where, partly by his cloquence, partly by rich prefents to the fenators and their wives, he foon gamed a good number of voices. When he was admitted into the fenate, he made a harangue worthy of a difciple of the great Demofthenes; after which, he read the conditions Pyrrhus propofed, and, with a great deal of eloquence, endeavouring to thow the reafonablenefs and moderation of his matter's demands, akked leave for Pyrrhus to come to Rome to conclude and dign the treaty. The fenators were genetally inclined to agree to Pyrrbus's terms; hut neverthelefs, as feveral fenators were abfent, the determination of the affair was poltponed to the next day; when Appius Claudius, the greateit orator and moft learned civiltan in liome, old and blind as he was, caufed himfelf to be carried to the fenate, where he had not appeared The Rofor many years; and there, partly by his eloquence, mans refai. partly by his authority, fo prepoflefied the minds of the to treat. fenators againft the hing of Epirus, and the conditions he offered, that, when he had done fpeaking, the confcript fathers unanimoully paffed a decree, the fubflance of which was, That the war with Pyrrhus Rhould be continued ; that his ambaffacor fhould be fent back that very day; that the king of Epirus ftrould not be permitted to come to Rome; and that they fhould acquaint his ambaffador, that Rome would enter into no treaty of peace with his mafter till lie had left Italy.

Cyneas, furprifed at the anfwer given him, left Rome the fame day, and returned to 'Tarentum, to acquaint the king with the final relolution of the fenate. Pyrrhus would have willingly concluded a peace with them upon honourable terms; but, as the conditions they offered were not by any means confiftent with the reputation of his arms, he began, without lofs of time, to make all due preparations for the next campaign. On the nther hand, the Romans having raifed to the confulate P. Sulpicius Saverrio, and P. Decius Mus, difpatched them both into Apulia, where they found Pyrrhusencamped near a litt'e town called $A /$ culum. There the confuls, joining their armies, fortified themfelves at the foot of the $\Lambda$ pennincs, having between them and the c:iemy a large decp itream which divided the plain. Both armic, continued a great while on the oppoite barkis, before cither ventured to pais over to attack the nther. The Epirots allowed the Romans to crofis the Pre. me, and draw up on the pla'n. On the other hand, Pyrrius placed his men likewife in order of battle in the fame plain; and all the ancients do him the jullice to da., that no comn nd $t$ ever ur lerflood better the art of drawing $p$ an army and directing its motions. In the right wint he placed his lipirots and the Sammies; in his left the Lucamians, Brutions, and Salentines; and his phinr $x$ in the centre. The centre of the Moman army confifted of four legions, which were to ell$\mathrm{U}_{2}$

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Rome. gage the enemy's phalanx; on their wings were pofted the light-armed auxiliaries and the Roman horfe. The confuts, in order to guard their troops agrinft the fury of the elephants had prepared charions, armed with long points of iton in the flape of forks, and filled with fuldiers carrying firebrands, which they were directed to throw at the elephants, and by that means frighten them, and fet their wooden towers on fire. Thele chariots were pofted over-againit the king's elephants, and ordered not to ftir till they entered upon action. To this precaution the Roman generals added another, which was, to direct a body of Apulians to attack Pyrrhus's camp in the heat of the engagement, in order to force it, or at leaft to draw off part of the enemy's troops to defend it. At length ihe attack began, both parties being pretty equal in number; for each of them confilled of about 40,000 men. The phalanx fuftained, for a long time, the furious onfet of the legions with incredible bravery: but at length being forced to give way, Pyrrhus commanded his elephants to advance, but not on the fide where the Romans had pofted their chariots; they marched round, and, falling upon the Roman horfe, foon put them into confufion. Then the phalanx, returning with frefh courage to the charge, made the Roman legions in their turn give ground. On this occalion Decius was killed, fo that one conful only was left to command the two Roman armies. But while all things feemed to favour Pyrrhus, the body of Apulians which we have mentioned above, falling unexpectedly on the camp of the Epirots, obliged the king to difpatch a ftrong detachment to defend his intrenchments. Upon the departure of thefe troops, fome of the Epirots, imagining that the camp was taken, began to lofe courage, and retire; thofe who were next to them followed their example, and in a fhort time the whole army gave way. Pyrrhus having attempted feveral times in vain to rally his forces, returned to the charge with a fmall number of his friends and
king's phyfician, delivered a letter to Fabricius; wherein the traitor offered to take of his mafter by poifon, provided the conlul would promile him a reward proportionable to the greatnefs of the fervice. The virtuous The king's Roman, being filled with horror at the bare propolal of phyfician fuch a crime, immediately communicated the affar to porfon him, his colleague; who readily joined with him in writing but is difa letter to Pyrrbus, wherein they warned him, without covered by difcovering the criminal, to take care of himelf, and mans. be upon his guard againft the treacherous defigns of thole about him. Pyrrhus, out of a deep fente of gratitude for fo great a benefit, releafed immediately, without ranfom, all the prifoners he had taken. But the Romans, diddaining to accept either a favour from an enemy, or a recompenfe for not committing the blackeft treachery, declared, that they would not receive their prifoners but by way of exchange ; and accordingly fent to Pyrrhus an equal number of Samnite and Tarentine prifoners.

As the king of Epirus grew every day more weary of a war which he feared would end in his difgrace, he fent Cyneas a fecond time to Rome, to try whether he could, with his artful harangues, prevail upon the confeript fathers to hearken to an accommodation, upon fuch terms as were confiftent with his honour. But the ambaffador found the fenators fteady in their former refolution, and determined not-to enter into a treaty with his mafter till he had left Italy, and withdrawn from thence all his forces. This gave the king great uneafinees; for he had already loft moft of his veteran troops and beft officers, and was fenfible that he floould lofe the relt if he ventured another engagement. While ${ }^{165}$ he was revolving thefe melancholy thoughts in his mind, goes into ambaffadors arrived at his camp from the Syracufans, Sicily. Agrigentines, and Leontines, imploring the affiltance of his arms to drive out the Carthaginians, and put an end to the troubles which threatened their refpective ftates with utter deftruction. Pyrrhus, who wanted only fome honourable pretence to leave Italy, laid hold of this ; and appointing Milo governor of Tarentum, with a ftrong garrifon to keep the inhabitants in awe during his abfence, he fet fail for Sicily with 30,000 foot and 2500 horfe, on board a fleet of 200 flips. Here he was at firf attended with great fuccefs; but the Sicilians, difgufted at the refolution he had taken of paffing over into Africa, and much more at the enormous exactions and extortions of his minifters and courtiers, had fubmitted partly to the Carthaginians and partly to the Mamertines. When Carthage heard of this change, new troops were raifed all over Africa, and a numerous army fent into Sicily to recover the cities which Pyrrhus had taken. As the Sicilians daily deferted from him in crowds, he was no way in a condition, with his Epirots alone, to withftand fo powerful an enemy; and therefore, when deputies came to him from the Tarentines, Samnites, Bruttians, and Lucanians, reprefenting to him the loffes they had fuftained fince his departure, and remonftrating, that, without his affiftance, they muft fall a facrifice to the Romans, he laid hold of that opportunity to abandon the ifland, and return to Italy. His fleet was attacked by that of Carthage ; and his ar-He returns my, after their landing, by the Mamertines. But Pyr-inso Italy. rhus having, by his heroic bravery, efcaped all danger, marched along the fea-fhore, in order to reach Tarentum that way. As he paffed through the country of

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 the Locrians, who had not long before maflacred the troops he had left there, he not only exercifed all forts of cruelty on the inhabitants, but plundered the temple of Proferpine to fupply the wants of his army. The immenfe riches which he fouid there, were, by his order, fent to Tarentum by fea; but the thips that carried them being dafhed againit the rocks by a tempef, and the mariners all lolt, this proud prince was convinced, fays Livy, that the gods were not imaginary beings, and caufed all the treafure, which the fea had thrown upon the fhore, to be carefully gathered up, and replaced in the temple : nay, to appeafe the wrath of the angry goddefs, he put all thofe to death who had adviled him to plunder her temple. However, fuperitition made the ancients afcribe to this act of impiety all the misfortunes whith afterwards befel that unhappy prince.Pyrrhus at length arrived at Tarentum; but of the army he had carried into Sicily, he brought back into Italy only 2000 horfe and not quite 20,000 foot. He therefore reinforced them with the beat troops he could raife in the countries of the Samnites, Lucanians, and Bruttians; and hearing that the two new confuls, Curius Dentatus and Cornelius Lentulus, had divided their forces, the one invading Lucania and the other Samnium, he likewife divided his army into two bodies, marching with the choice of his Epirots againft Dentatus, in hopes of furprifing him in his camp near Beneventum. But the conful having notice of his approach, went out of his intrenchments with a ftrong detachment of legionaries to meet him; repulfed his vanguard, put many of the Epirots to the fword, and took fome of their elephants. Curius encouraged with this fuccefs, marched his army into the Taurafian fields, and drew it up in a plain which was wide enough for his troops, but too narrow for the Epirot phalanx, the phalangites being fo crowded that they could not handle their arms
ftrength and fkill with fo renowned a commander, made him engage at that great difadvantage. Upon the firlt fignal the action began; and one of the king's wings giving way, the victory feemed to incline to the Romans. But that wing where the king fought in perfon repulfed the enemy, and drove them back quite to their intrenchments. This advantage was in great part owing to the elephants; which Curius perceiving, commanded a corps de referve, which he had pofted near the camp, to advance and fall upon the elephants. Thefe carrying burning torches in one hand, and their fwords in the other, threw the former at the elephants, and with the latter defended themfelves againft their guides; by which means they were both forced to give way. The elephants being put to flight broke into the phalanx, clole as it was, and there caufed a general diforder; which was increafed by a remarkable accident: for it is faid, that a young elephant being wounded, and thereupon making a dreadful noife, the mother quitting her rank, and haftening to the affiftance of her young one, put thole who ftill kept their ranks into the utmoft confufion. But, however that be, it is certain that the Romans obtained at laft a complete victory. Orofius and Eutropius tell us that Pyrrhus's army confifted of 80,000 foot and 6000 horle, including his Epirots and allies; whereas the confular army was fcarcely 20,000 ftrong. 'Ihofe who exaggerate the king's lofs fay, that the num-
ber of the flain on his fide amounted to 30,000 men; Romi. but others reduce it to 20,000 . All writers agree, that $\underbrace{\sim}$ Curius took 1200 priloners and eight elephants. This victory, which was the moft decilive Romé had ever gained, brought all I:aly under fubjuction, and paved the way for thofe vatt conqueits which afterwards made the homans matters of the whole known world.

Pyrrhus being no way in a condition, after the great He abanlofs he had fuftamed, to keep the field, retired to la-donshis rentum, attended only by a imall body of horfe, leaving allies, the Romans in full poffetion of his camp; which they fo much admired, that they made it ever after a model to form theirs by. And now the king of Epirus refolved to leave Italy as foon as pofible; but concealed his defign, and endeavoured to keep up the drooping fpirits of his allies, by giving them hopes of fpeedy fuccours from Greece. Accordingly he dilpatched ambaffadors into /Etolia, Illyricum, and Macedon, demanding fupplies of men and money. But the anfwers from thofe courts not proving favourable, he forged fuch as might pleafe thofe whom he was willing to deceive; and by this means fupported the courage of his friends, and kept his enemy in play. When he could conceal bis departure no longer, lie pretended to be on a fudden in a great paffion at the dilatorinefs of his friends in fending him fuccours; and acquainted the Tarentines, that he mult go and bring them over himfelf. However, he left behind him a Arong garrifon in the citadel of Tarentum, under the command of the fame Milo who had kept it for him during his thay in Sicily. In order to keep this governor in his duty, he is faid to have made him a very ftrange prefent, viz. a chair covered with the flin of Nicias, the treacherous phyfician, who had offered Fabricius to poifon his mafter. After all thefe difguifes and precautions, Pyrrhus at laft fet lail for Epirus, and arrived fafe at Acroceraunium with Scoo foot and $\varsigma 00$ horfe; after having fpent to no purpofe fix years in Italy and Sicily.

Though, from the manner in which Pyrrhus took his leavc, his Italian allies had little reafon to expectany further affiftance from him, yet they continued to amufe themfelves with vain hopes, till certain accounts arrived of his being killed at the fiege of Argos, as has been related under the article Epirus. 'I his threw who 169 the Samnites into defpair: fo that they put all to the fabdued, iffue of a general battle; in which they were defeated and the Rowith fuch dreadful flaughter, that the nation is faid to mans behave been almoft exterminated. This overthrow was fers of all foon followed by the fubmiffion of the Lucanians, Brut- Ita'). tians, Tarentines, Sarcinates, Picentes, and Salentines; fo that Rome now became miftrefs of all the nations from the remoteft parts of Hetruria to the Ionian fea, and from the Tyrrhenian fea to the Adriatic. All thefe nations, however, did not enjoy the fame privileges. Some were entirely fubject to the republic, and had no laws but what they received from thence; others retained their old laws and cuftoms, but in fubjection to the republic: fome were tributary; and others allies, who were obliged to furnifh troops at their own expence when the Romans required. Some had the prid vilege of Roman citizenfhip, their foldiers being incot $J$ porated in the legions; while others had a right of furs frage in the elections made by the centurics. 'Thefe dif? ferent degrees of honour, privilcges, and liberty, werd founded on the different terins granted to the conquered

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Rome．

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Othercon－ quelts made by the Ro－ mans． nations when they furrendered，and were afterwards in－ creafed according to their fidelity and the fervices they did the republic．

The Romans now became refpected by foreign na－ tions，and received ambaffadors from P＇olemy Philadel－ phus king of Egypt，and from Apollonia a city of Ma－ cedon．Senfible of their own importance，they now granted protection to whatever nation requefted it of them；but this not with a view of ferving one party， but that they might have an opportunity of fubjecting both．In this manner they allifted the Mamertines againft Hiero king of Syracufe，which brought on the wars with the Carthaginians，which terminated in the total deitruction of that ancient republic，as has been related under the article Carthage．The interval be－ tween the firlt and fecond Punic wars was by the Ro－ mans employed in reducing the Boii and Ligurians，who had revolted．Thefe were Gaulifh nations，who had al－ ways been very formidable to the Romans，and now gave one of their confuls a notable defeat．However， he foon after fufficiently revenged himfelf，and defeated the enemy with great flaughter；though it was not till fome time after，and with a good deal of difficulty，that they were totally fubdued．During this interval alfo， the Romans feized on the iflands of Sardinia，Corlica， and Malta；and in the year 219 B．C．the two former were reduced to the form of a province．Papirius，who had fubdued Corfica，demanded a triumph ；but not ha－ ving intereft enough to obtain it，he took a method en－ tirely new to do himfelf juftice．He put himfelf at the head of his victorious army，and marched to the tem－ ple of Jupiter Latialis，on the hill of Alba，with all the pomp that attended triumphant victors at Rome． He made no other alteration in the ceremony，but that of wearing a crown of myrtle inftead of a crown of laurel，and this on account of his having defeated the Corficans in a place where there was a grove of myr－ tles．The example of Papirius was afterwards followed by a great many generals to whom the fenate refufed triumphs．

The nest year，when M．Emilius Barbula and M． Junius Pera were confuls，a new war fprung up in a hingdom out of Italy．Illyricum，properly fo called， which tordered upon Macedon and Epirus，was at this time governed by a woman named Teula，the widow of King Agron，and guardian to her fon Pinrus，who was under age．The fuccels of her late hufband againit the 不tolians had flufhed her to fuch a degree，that inftead of fettling the affairs of her ward in peace，fhe commanded her fubjects to cruife along the coaft，feize all the Chips they met，take what places they could，and fpare no nation．Her pirates had，purfuant to her or－ ders，taken and plundered many ftips belonging to the Roman merchants；and her troops were then befieging the illand of Iffa in the Adriatic，though the inhabi－ tants had put themfclves under the protection of the re－ public．Upon the complaints therefore of the Italian merchants，and to protect the penple of IfTa，the fenate fent two ambafiadors to the Illyrian queen，Lucius and Caius Coruncanus，to demand of her that fhe would reftrain her fubjects from infefting the fea with pirates． She anfwered them haughtily，that the could only pro－ mife that her fubjects ftould not for the future attack the Romans in her name，and by public authority ： ＂but as for any thing morc，it is not cuftomary wilh us
（Faid fhe）to lay reftraints on our fubjects，nor will we torbid them to reap thofe advantages from the fea which it offers them．＂＂Sour cuftoms then（replied the young－ elt of the ambaffadors）are very different from ours． At fome we make public examples of thofe fubjects who injure others，whether at home or abroad．Teuta， we can，by our arms，force you to reform the abufes of your bad government．＂Thefe unfeafonable threaten－ ings provoked Teuta，who was naturally a proud and im－ perious woman，to fuch a degree，that，without regard to the right of nations，the caufed the ambaffadors to be murdered on their return home．

When fo notorious an infraction of the law of na－ Lions was known at Rome，the people demanded ren－ geance；and the fenate having firft honoured the manes of the ambaffadors，by erecting，is was ufual in fuch cales，ftatues three feet high to their memory，ordered a fleet to be equipped，and troops raifed，with all pof－ fible expedition．But now Teuta，reflecting on the enormity of her proceedings，fent an embafly to Rome， affuring the fenate that fhe had no hand in the murder of the ambaffadors，and offering to deliver up to the republic thofe who had committed that barbarous af－ faflination．The Romans being at that time threaten－ ed with a war from the Gauls，were ready to accept this fatisfaction：but in the mean time the Illyrian fleet having gained fome advantage over that of the Achæ－ ans，and taken the ifland of Corcyra near Epirus，this fuccefs made Teuta believe herfelf invincible，and for－ get the promife fhe had made to the Romans；nay，the fent her fleet to feize on the ifland of Ifta，which the Romans had taken under their protection．

Hereupon the confuls for the new year，P．Pofthu mius Albinus and Cn ．Fulvius Centumalus，embarked for Illyricum；Fulvius having the command of the fleet， which conlifted of 100 galleys；and Poflhumius of the land forces，which amounted to 20,000 foot，befides a fmall body of horfe．Fulvius appeared with his Reet before Corcyra in the Adriatic，and was put in pof－ feffion both of the ifland and city by Demetrius of Pharos，governor of the place for Queen Teuta．Nor was this all；Demetrius found means to make the in－ habitants of Apollonia drive out the Illyrian garrifon， and admit into their city the Roman troops．As Apol－ lonia was one of the keys of Illyricum on the fide of Macedon，the confuls，who had hitherto acted jointly， no fooner faw themfelves in poffeffion of it than they feparated，the fleet cruifing along the coaft，and the army penetrating into the heart of the queen＇s domi－ nions．The Andyœeans，Parthini，and Atintanes，vo－ luntarily fubmitted to Poftbumius，being induced by the perfuafions of Demetrius to fhake off the Illyrian yoke．The conful being now in poffeffion of moft of the inland towns，returned to the coaft，where，with the affiltance of the fleet，he took many ftrongholds， among which was Nutria，a place of great ftrength，and defended by a numerous garrion ；fo that it made a vi－ gorous defence，the Romans having loft before it a great many private men，feveral legionary tribunes，and one quæftor．However，this lofs was repaired by the taking of 40 Illyrian veffels，which were returning home laden with booty．At length the Roman fleet appeared be－ fore Iffa，which，by＇Teuta＇s order，was ftill clofely be－ fieged，notwithflanding the lofies fhe had fuftained． However，upon the approach of the Roman fleet，the

Illyrians

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Rome. Illyrians difperfed; but the Pharians, who ferved among them, followed the example of their countryman Demetrius, and joined the homans, to whons the Iffani readily fubmitted.

In the mean time Sp. Corvilius and Q. Fabius Maximus being raifed to the confulate a fccond time, Potthumius was rccalled from Illyricum, and refufed a triumph for having been too prodizal of the Roman blood at the fiege of Nutria. His colleague Fulvius was appointed to command the land forces in his room, in quality of proconful. Hereupon Teuta, who had founded great hopes on the change of the confuls, retired to one of her ftrongholds called $R$ hizon, and from thence early in the fpring fent an embaffy to Rome. The fenate refufed to treat with her; but granted the young king a peace upon the following conditions: 1. That be thould pay an annual tribute to the republic. 2. That he fhould furrender part of his dominions to the Romans. 3. That he fhould never fuffer above three of his fhips of war at a time to fail beyond Lyffus, a town on the confines of Macedon and Illyricum. The places he yielded to the Romans in virtue of this treaty, were the iflands of Corcyra, Iffa, and Pharos, the city of Dyrrhachium, and the country of the Atintanes. Soon after Teuta, either out of fhame, or compelled by a fecret article of the treaty, abdicated the regeucy, and Demetrius fucceeded her.
long after entirely fubverted, as has been related in the hiffory of Carthace.

The fuccelsful illue of the fecond Punic war had The Ro- ${ }^{17.3}$ greatly increafed the extent of the Roman empire. manempire They were now mafers of all Sicily, the Meditcrra-arrives at nean iflands, and great part of Spain; and, through its full exthe diffenfions of the Afratic slates with the king of Ma- tent. cedon, a pretence was now found for carrying their arms into thefe parts. The Gauls in the mean time, however, continued their incurfions, but now ceafed to be formidable; while the kings of Macedon, through mifconduct, were firt obliged to fubmit to a difadvantageous peace, and at laft totally fubdued (fee MaceDON). The reduetion of Macedon was foon followed by that of all Greece, either by the name of allies or otherwife : while Antiochus the Great, to whom Hannibal fled for protection, by an unfuccefsful war firfe gave the Romans a footing in Afia (fee Syria). The Spaniards and Gauls continued to be the moft obflinate enemies. The former, particularly, were rather eaterminated than reduced; and even this required the utmoft care and vigilance of Scipio Emilianus, the conqueror of Carthage, to execute. See Spain and NUmantia.

Thus the Romans attained to a height of power fuperior to any other nation in the world; but now a fedition broke out, which we may fay was never terminated but with the overthrow of the republic. This had its a:igin from Tiberius Scmpronius Gracchus, defeended from family which though
 ftrious as any in the commonwealth. His father had been twice raifed to the confulate, was a great general, and had been honoured with two triumphs. But he was ftill more renowned for his domeftic virtues and probity, than for his birth or valour. He married the daughter of the firf Africanus, faid to be the pattern of her fex, and the prodigy of her age; and had by her feveral children, of whom three only arrived $2 t$ maturity of age, Tiberius Gracchus, Caius Gracchus, and a daughter named Sempronia, who was married to the fecond Africanus. Tiberius, the eldeft, was deemed the moft accomplifhed youth in Rome, with refpect to the qualities both of body and mind. His extraordinary talents were heightened by a noble air, an engaging countenance, and all thofe winning graces of nature which recommend merit. He made his firf campaigns under his brother-in-larr, and diftinguifhed himfelf on all occafions by his courage, and by the prudence of his conduct. When he returned to Rome, he applied himSelf to the Itudy of eloquence; and at 30 years old was accounted the beft orator of his age. He married the daughter of Appius Claudius, who had been firmerly conful and cenfor, and was then prince of the fenate. He continued for fome time in the fentiments both of his o:sn and his wife's family, and fupported the interell of the patricians; but without openly att.cking the popular faction. He was the chief author and negociator of that flomeful neceflary peace with the Numantincs; which the fenate, with the utmoft injuftice, difannulled, and condemned the conful, the quarflor, and all the officers who had figned it, to be delivered up to the Numantines (ee Nimantio). The people, indced, out of efteem for Gracclius, would not fufier lim to be facrificed: but, however, he had juft reafon to complain, both of the fena'e and people,

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R.me. for paffirg fo fcandalous a decree againt his general and himielf, and breaking a treaty whereby the lives of fo many citizens bad been faved. But as the fenate had chiefly promoted fuch bafe and iniquitous proceedings, he refolved in due time to fhow his refentment againf the party which had contributed moff to his difgrace.

In order to this, he flood for the tribunefhip of the people; which he no fooner obtained, than he refolved to attack the nobility in the mon tender part. They had ufurped lands unjuflly; cultivated them by flaves, to the great detriment of the public; and had lived for about 250 years in apen defiance to the Licinian law, by which it was enacted that no citizen fhould poffefs more than 500 acres. This law Tib. Gracchus refolved to revive, and by that means revenge himfelf on the patricians. But it was not revenge alone which prompted him to embark in fo dangerous an attempt. It is pretended, that his mother Cornelia animated him to undertake fomething worthy both of his and her family. The reproaches of his mother, the authority of fome great men, namely of his father-in-law Appius Claudius, of P. Craflus the pontifex maximus, and of Mutius Scrvola, the mof learned civilian in Rome, and his natural thirf after glory, joined with an eager defire of revenge, confpired to draw him into this moft unfortunate fcheme.
A new law The law, as he firl drew it up, was very mild: for propofed by it only enacted, that thofe who pofieffed more than 500
king. But the people, without giving ear to fuch groundlefs reports, made it their whole bufinefs to encourage their tribune, who was hazarding both his life and reputation for their fakes.

When the day came on which this law was to be accepted or rejected by the people affembled in the comitium, Gracchus began with haranguing the mighty crowd which an affair of fuch importance had brought together both from the city and country. In his fpeech he fhowed the juffice of the law with fo much eloquence, made fo moving a defcription of the miferies of the meaner fort of people, and at the fame time fet forth in fuch odious colours the ufurpation of the public lands, and the immenfe riches which the avarice and rapacioufness of the great had raked together, that the people, tranfported with fury, demanded with loud cries the billets, that they might give their fuffrages. Then Gracchus, finding the minds of the citizens in that warmth and emotion which was neceffary for the fuccefs of his defign, ordered the law to be read.

But unluckily one of the tribunes, by name Marcus Oppofed by Offavius Cacina, who had always profeffed a great the tribuns friendlhip for Gracchus, having been gained over by the patricians, declared againft the proceedings of his friend and colleague; and pronounced the word which had been always awful in the mouth of a trioune of the people, Veto, "I forbid it." As Octavius was a man of an unblameable character, and had hitherto been very zealcus for the publication of the lav, Gracchus was greatly furprifed at this unexpected oppofition from his friend. However, he kept his temper, and only defired the people to affemble again the next day to hear their two tribunes, ose in defence of, the other in opfofition to, the law propofed. The people met at the time appointed ; when Gracchus addreffing himfelf to his colltague, conjured him by the mutual duties of their function, and by the bonds of their ancient friendfhip, not to oppofe the good of the people, whom they were bound in honour to proteet againt the ufurpation of the great : nay, taking his colleague afide, he addreffed him thus, "Perbaps you are perfonally concerned to oppofe this law; if fo, I mean, if you have more than the five hundred acres, I my felf, poor as I ant, engage to pay you in money what you nill lofe in land." But Octavius, either out of fhame, or from a principle of honour, continued immoveable in the party he had embraced.

Gracchus therefore had recourle to mother expedient; which was to fufpend all the magittates in Rome fiom the execution of their offices. It was lavful fo: any tribune to take this ftep, when the paffing of the law which he propofed was prevented thy mere chicanery. After this, he affembled the people anew, nnd made a fecond attempt to fucceed in his defign. When all things were got ready for colleding the fuffrages, the rich privately conveyed away the urns in which the tablets were kept. This kindled the tribune's indignation, and the rage of the people. The comitium was like to become a field of battle, when two verierable fenatorManlius and Fulvius, very feafonably interpcied; and throwing themfelves at the tribune's feet, prevailed upon him to fubmit his law to the judgment of the confcript fathers. This was making the fenators judges in their own caufe : but Greechus themght the law fo undeximbly

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lenially juri, that he conlt not pe.tu.de laneif that they wouk. jeet it; ast if tiey dit, he k.... that the incenfed multitade wou'd no dot otr keep any meafures nith them.

The fenaie, who wanted nothing but to gain time, affezted delays, and came to rio refolution. There were indeed fome among tien, who, out of a rinciple of equity, were for paying lome regard to th "umplaints o: the tribune, and for facriticing their own intereft to the relief of the dittreTed. But the far greater part would not hear of any compolition whatfoever. Hereuno, Gracchus brought the aflai: anew before the people, Fid owneflly intreaid his colleague Otavius to drop his oppolition, in companion to the muy unfortunate people for whom he inteiceded. Ife put hism in mind of their a acieat friendilip, took him by the hand, and affectionately enjraced him. But ffill Oatavius was inlexible. Ilezeupon Gracchus refolved to deprive O民avius of his trihunefhip, fince he alone obtinately withltood the defires of the whole body of fo great a people. Having therefore atembled the people, he told them. that fince his colleague and he were diviled in opinion, and the reow, lic fuffered by their divifiom, it was the province of the tribes allembled in comitia to re-efablih concord among their tribunes. "If the caufe 1 insintain (Gaid he) be, in your opinion, unjuft, I am ready to give up my feat in the college. On the contrary, if you judge me worthy of being continued in your fervice in this fation, deprive him of the tribunenhip who alune obitructs my wifhes. As foon as you fhall have nominated one to fucceed him, the law will pals withoit oppofition." Having thus fpoken, he difmifed the affembly, after having fammoned them to meet again the next day.

And now Gracchus, being foured with the oppofition be had met with from the rich, and from his obftinate cll ague. and being well appried that the law would Jofs in any form in which he fhould think fit to propofe it, refolved to revive it as it was at firlt paffed, without abating any thing of its feverity. There was to sreption in favo re of the children in families; -or timburfement promifed to thofe who thould pirt with the lands they pofferf $d$ :inve 5000 acres. The next day the peosle being affem sled in vait crowds on this extraor inary occafion, Gracclius made fieh applications is Octavius, nut to no parnole; he o'vtimetely perfited in his nopofition. Then Gracchus tarning to the poorle, - Judae vou, (fid he, whi h of us deferves to be deprived of his office." At thefe words the firit tribe roted, and drclared for the depolition of OAtavius. Upon which Grace hus, fir pen Jing the ardour of the tribes, ma le another effurt to bring over his oppanent by gentle mathools. Put all h's etdeavours proving inc.i. ant, th: other tribes went on to vote in their turns, and folbowed the ex:mple of the firt. Of 35 tibes, 17 had a ready declared againft Otzavius, and the 18 th was iuft going to deternine the afwir, when Grarchas, bing willing to try once more whether he coult eech im lis colieague, fu'pended the colleating of the fiffrages; and a:ldrefing O Aaviss in the moft preffing terms, conjured him not to expire himelf, by his oblinacy, in fo great a difgrace, nor to give lius the grief of biviry calt a blemils upon his colleagste and friend, which neither tine nor merit would ever,wipe off. Octavio, however, continuing obllinate, was depofed, and the lasy Vola XVII!. Patt I.

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p. fed as Gow low h.d propofed it tio latt timie. Rome The depsed tiluse was diagged fium the 1 ra ly the inconfed matitur, "ho would hare is filud him further, had not the fe...tors and his fricnds ticilitated his efrape.

The Lecinian law being thus revived with one confent both by the city and country tribee, Gracchus canfed the people to alfoint triumvirs, or thrce commilifioners, to alen its exceution. In this commilfin the people save Gracchus the firit place; and he wad interelt enows to get his father-in-law Appius Claudius, and his brother Ciius Gracchus, al poincel I's colleagues. Thefe three $f_{i}$ ent the whoie funmer in travelifin, through all the ltalian provinces, to e. anine what lands were held by any perfon alove 502 acres, in order to divide them among the poor citizens. When Gracchus returned from his progrefs, he found, by the death of his c: ief agent, th. , his al lence had not aba. ted either the hatred of the rich, or the love of the porer, toward lim. As it plainly appeared that the dteealed had been poifoned, the tiifune took this occafion to apply himfelf again to his protectors, and implose their affiltance againlt the violence and treachery of his enemies. The populace, more attached after this accident to their hero than ever, declared they would ftand by him to the laft drop of their hlood; and thus their zeal encouraged him to add a new claufe to the law, vic. that the commiffioncrs flould likenife isquire whut lands had been ufurped from the republic. 11 is was toucling the fenators in a moft tencer point; for mort of them had appropriated to themelves lame's belonging to the republic. After all, the tri une, upon a fricict inquiry, found that the lands taken from the rich would not be emough to content all the pror citizens. But the followi.g accident ealed lim of this diliculty, and enabled him to fop the murmurs of the malcontents amons the people.

Attalus Prilometer, king ef Pergamue, having be- The ireaz queathed his dominions and efficts to the Romans, Lu- fures or Ardemus the Pergamean brought his treafures to Rome vidusdaat this time; and Gracchus immediately got a new law vided apaffed, enaeting, that this money fhould be divided peut by among the poor cilizens who could not have lands; Giac an... and tinst the difporal of the revenues of Perganus fhould not be in the fenate, but in the comita. By thefe fteps Gracchus noff efieciually humbled the fenate; who, in order to diferedit him among the prople, gave out that Eudim s, who had hrought the A'ig's will to Rome, had left with Gra chus the royal dialon an:d mantle of Attalus, which the law-making tribene was to ufe mhen he fionld be proclinatd hin. of K me. But thefe redorts only fervet to put Grex i, s more upon his guard, and to infpire t: people with an implac:- ${ }^{\text {- }}$ le hatred egaintt the rich who ete the a thors of tiem. Gracchus being norr, by his pr er over the minds of the multitude, abfolute mafter of their fuffrag, formed a defign of raiing his fakiar-iv-laiv A puin Claudius to the confulate next year, of promo. ting lis browher Caius to the tribuneflip, -nd getting himifle continued in the fame office. The it was what moit nearly concerned him; his perful, as lung as he was in (flice, being facred and inviulable As the fenate wis very aftive in endeavorting to ge. Wuch only eleAcd into the coliege of tribunes as were enenies to Gaachlus and lis faction, the tribune leit no flone X untarned

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 unturned to fecure his election. He told the people, that the rich had refolved to affaffinate him as foon as he was out of his office; he appeared in mourning, as was the cuftom in the greateft calamities; and bringing his children, yet young, into the forum, recommended them to the people in fuch terms, as thowed that he defpaired of his own prefervation. At this fight the populace returned no anfwer, but by outcries and menaces againtt the rich.When the day appointed for the election of new tribunes came, the people were ordered to affemble in the capitol in the great court before the temple of Jupiter. The tribes being met, Gracchus produced his petition, intreating the people to continue him one year longer in the office of tribune, in confideration of the great danger to which he was expofed, the rich having vowed his deffruction as foon as his perfon fhould be no more facred. This was indeed an unufual requeft, it having been long cuftomary not to continue any tribune in his office above a year. However, the tribes began to vote, and the two firft declared for Gracchus. Hereupon the rich made great clamours; which terrified Rubrius Varro, who prefided in the college of tribunes that day, to fuch a degree, that he refigned his place to Q. Mummius, who offered to prefide in his room. But this raifed a tumult among the tribunes themfelves; fo that Gracchus wifely difmiffed the affembly, and ordered them to meet agair the next day.

In the mean time the people, being fenfible of what importance it was to them to preferve the life of fo powerful a protector, not only conducted him home, but watched by turns all night at his door. Next morning by break of day, Gracchus having affembled his friends, led them from his houfe, and pofted one half of them in the comitium, while he went up himfelf with the other to the capitol. As foon as he appeared, the people faluted him with loud acclamations of joy. But farcely was he placed in his tribunal, when Fulvius Flaccus a fenator, and friend to Gracchus, breaking through the crowd, came up to him, and gave him notice, that the fenators, who were affembled in the temple of Faith, which almoft touched that of Jupiter Capitolinus, had confpired againft his A conipi. very tribunal. Hereupon Gracchus tucked up his racy agairft robe, as it were, to prepare for a battle ; and, after his life. life, and were refolved to attack him openly on his his example, fome of his party feizing the ftaves of the apparitors, prepared to defend themielves, and to repel force by force. Thefe preparations terrified the other tribunes; who immediately abandoned their places in a cowardly manner, and mixed with the crowd; while the priefts ran to thut the gates of the temple, for fear of its being profaned. On the other hand, the friends of Gracchus, who were difperfed by parties in different places, cried out, We are ready: What muf? we do? Gracchus, whofe voice could not be heard by all his adherents on account of the tumult, the clamours, and the confufed cries of the difjerent parties, put his hand to his head; which was the fignal agreed on to prepare for battie. But fome of his enemits, putting a malicious conftruction upon that gefture, immediatcly flew to the fenate, and told the fathers, that the feditious tribune had called for the crown to be put upon his head. Hereupon tl.e fenators, fancying they already faw the king of Perga-
mus's diadem on the tribune's head, and the royal mantle on his moulders, refolved to give the conful leave to arm his legions, treat the friends of Gracchus as enemies, and turn the comitium into a field of battlc.

But the conful Mutius Scævola, who was a prudent and moderate man, refufed to be the initrument of their rafh revenge, and to difhonour his confulate with the maffacre of a difarmed people. As Calpurnius Pifo, the other conful, was then in Sicily, the moft turbulent among the fenators cried out, "Since one of our confuls is abfent, and the other betrays the republic, let us do ourfelves juftice; let us immediately go and demolifh with our own hands this idol of the people." Scipio Nafica, who had been all along for violent meafures, inveighed bitterly againlt the confill for refufing to fuccour the republic in her greateft diftrefs. Scipio Nafica was the great-grandfon of Cneius Scipio, the uncle of the firft Africanus, and confequently coufin to the Gracchi by their mother Cornelia. But neverthelefs not one of the fenators betrayed a more irreconcileable hatred againft the tribune than he. When the prudent conful refufed to arm his legions, and put the adherents of Gracchus to death contrary to the ufual forms of juftice, he fet no bounds to his fury, but, rifing up from his place, cried out like a madman, "Since our conful betrays us, let thofe who love the republic follow me." Having uttered thefe words, he immediately walked out of the temple, attended by a great number of fenators.

Nafica threw his robe over his fhoulders, and having a fcuffe covered his head with it, advanced with his followersenfues, in into the crowd, where he was joined by a company of which the clients and friends of the patricians, armed with is killed. ftaves and clubs. Thefe, falling indifferently uron all who flood in their way, difperfed the crowd. Many of Gracchus's party took to their heels; and in that tumult all the feats being overturned and broken, Nafica, armed with the leg of a broken bench, knocked down all who oppofed him, and at length reached Gracchus. One of his party feized the tribune by the lappet of his rube: but he, quitting his gown, fled in his tunic; and as he was in that confufion, which is infeparable from fear, leaping over the broken benches, he had the misfortune to flip and fall. As he was getting up again, he received a blow on the head, which ftunned him: then his adverfaries rufhing in upon him, with repeated blows put an end to his life.

Rome was by his death delivered, according to Ci cero, from a domeflic enemy, who was more formidable to her than even that Numantia, which had firft kindled his refentments. Perhaps no man was ever born with greater talents, or more capable of aggrandizing himfelf, and doing honour to his country. But his great mind, his manly courage, his lively, eafy, and powerful eloquence, were, fays Cicero, like a fword in the hands of a madman. Gracchus abufed them, not in fupporting an unjuft caule, but in conducting a good one with too much violence. He went fo far as to make fome believe that he had really fomething in view befides the intereft of the people whom he pretended to relieve; and therefore fome hifforians inave reprefented him as a tyrant. But the moft judicious writers clear him from this imputation, and afcribe his firft defign of reviving the Licinian law to an eager defirc of being re-

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Romie. venged on the fenators for the affront thicy had very unjuitly put upon him, and the conful Mancinus, as we have hinted above. The law he attempted to revive had an air of jullice, which gave a fanction to his re18 r venge, without cafting any blemifh on his reputation.
His friends The deatb of Gracchus did not put an end to the tumafiacred. mult. Above 300 of the tribune's friends loft their lives in the affray; and their bodies were thrown, with that of Gracchus, into the Tiber. Nay, the fenate carried their revenge beyond the fatal day which had ftained the Capitol with Roman blood. They fought for all the friends of the late tiibune, and without any form of law affaffinated fome, and forced others into banifhment. Caius Billius, one of the moft zealous defenders of the people, was feized by his enemies, and fhut up in a cafk with fnakes and vipers, where he miferably perifhed. Though the laws prohibited any citizen to take away the life of another before he had been legally condemned, Nafica and his followers were acquitted by the fenate, who enatted a decree, jultifying all the cruelties committed againft Gracchus and
182 his adherents.
The diftur- Thefe difturbances were for a fhort time interrupted bances in- by a revolt of the flaves in Sicily, occafioned by the creafe. cruelty of their mafters; but they being foon reduced, the contefts about the Sempronian law, as it was called, again took place. Both parties were determined not to yield; and therefore the molt fatal effects enfued. The firft thing of confequence was the death of Scipio Africanus the Second, who was privately ftrangled in his bed by fome of the partifans of the plebeian party, about 129 B. C. Caius Gracchus, brother to him who had been formerly killed, not only undertook the revival of the Sempronian law, but prupofed a new one, granting the rights of Roman citizens to all the Italian allies, who could receive no fhare of the lands divided in confequence of the Sempronian law. The confequences of this were much worfe than the former; the flame fpread through all Italy; and the nations who had made war with the republic in its infancy again commenced enemies more formidable than before. Fregellæ, a city of the Volfci, revolted: but being fuddenly attacked, was obliged to fubsit, and was rafed to the ground; which quieted matters for the prefent. Gracchus, however, fill continued his attempts to humble the fenate and the reft of the patrician body : the ultimate confequence of which was, that a price was fet on his head, and that of Fulvius his confederate, no lefs than
182 their weight in gold, to any one who flould bring them The cuflom to Opimius the chief of the patrician party. Thus the of profrrip- cuftom of profeription was begun by the patricians, of rion begun which they themfelves foon had enough. Gracchus and Fulvius were facrificed, but the diforders of the republic were not fo eafily cured.

The inundation of the Cimbri and Teutones put a flop to the civil difcords for fome time longer; but they being defeated, as related under the article Crisbri and Teutones, wothing prevented the troubles from being revived with greater fury than before, except the war "ith the Sicilian flaves, which had again commenced with more dangercus circumflances than ever. But this war being totally ended about 99 B. C. no farther obftacle remained. Marius, the conqueror * See Nu* of Jugurtha * and the Cimbri, undertook the caufe of midia. the plebeians againd the fenate and patricians. Ha-
ving effociated himfelf with Apuleius and Glaucia, two factious men, they carried their proceedings to fuch a length, that an open rebellion commenced, and Marius himielf was obliged to act againft his allies. Peace, however, was for the prefent reftored by the maflacre of Apuleius and Glaucia, with a great number of their followers; upon which Narius thought proper to leave the city.

While factious men thus endeavourcd to tear the republic in pieces, the attempts of well-meaning people to heal thofe divifions ferved only to involve the flate in calamities alill more grievous. The confuls obferved, that many individuals of the Italian allies lived at Rome, and falfely pretended to be Roman citizens. By means of them, it was likewife perceived, that the plebeian party had acquired a great deal of its power : as the votes of thefe pretended citizens were always at the fervice of the tribunes. The confuls therefore got a law paffed, commanding all thofe pretended citizens to return home. This was fo much refented by the Italian flates, that an univerfal defection took place. A fcheme was then formed by M. Livius Drufus, a tribune of the people, to reconcile all orders of men; but this only made matters worfe, and procured his own affor $13_{3}$
 Marfi, Peligni, Samnites, Campanians, and Lucanians, war. and in fhort all the provinces from the river Liris to the Adriatic, revolted at once, and formed themfelves into a republic, in oppofition to that of Rome. The haughty Romans were notv made thoroughly fenfible that they were not invincible: they were defeated it: almoft every engagement; and muft foon have yielded, had they not fallen upon a method of dividing their enemies. A law was paffied, enacting, that all the nations in Italy, whofe alliance with Rome was indifputable, fhould enjoy the right of Roman citizens. This drew off feveral nations from the alliance; and at the fame time, Sylla taking upon him the command of the Roman armies, fortune foon declared in favour of the latter.

The fuccefs of Rome againt the allies ferved only to bring greater miferies upon herfelf. Marius and Sylla became rivals; the former adhering to the people, and the latter to the patricians. Marius affociated with one of the tribunes named Sulpitius; in conjunction with whom he raifed fuch diffurbances, that Sylla was forced to retire from the city. Having thus driven off his rival, Marius got himfelf appointed general againft Mithridates * king of Pontus; but the foldiers refufed *See Porto obey any other than Sylla. A civil war immediate- ${ }^{\text {t }}$ ly enfued, in which Marius was driven out in his tarn, and a price fet upon his head and that of Sulpitius, with miany of their adherents. Sulpitius was fion feized and killed; but Mlarius made his efcape. In the mean time, howerer, the cruelties of Sylla rendered him obnoxious both to the fenate and people; and Cinna, a furious partifa: of the Marian faction, being shofen conful, cited him to give an account of his conduct. Upon this Sylla thougint proper to fet out for Afia: Marius uas recalled from Africa, whither he had fled: and immediately on his landing in Italy, was joined by a great number of fluepherds, flaves, and men of defperate fortures; fo that he foun fatv himfelf at the heal of a confiderable army.

Cii na, in the mean time, whom the fenators had de$\mathrm{X}_{2}$ ro!e?

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Romes pofed and driven out of Rome, folicited and ottained

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 Hurredc.unities c man tt.d by $\mathrm{Cl}_{1}$ 2, 2har.u:, ©. a powerful army from the allies; and being joined ty Sertorius, a moft able and experienced general, the two, in cos.juretion with Marius, advat.ced towads the capi al ; and as their forces daily inctea.es, a fourth army was formed under the cummand of Papiritus (erbo. The ienate railed fome forces to defend the ciiy; but the troups ixing vaitly infe.tor in $n$ imber, at likewite inclined to the contrary fike, they were obliged to open their gates to the contederaies. Ma:ins Ellered at the head of a numerous guard, compoied of Baves, whom he called his Bardicars, and whom he defigned to employ in severging himely on his enemies. The firft order he gave thele affoffins was, to murder all wno came to fainte him, aid were not anfisered with the like civility. As every one was forward to pay his compliments to the new tyrant, this order proved the deftrution of vait numbers. At laft thefe Bardireans abandoned themfelves to luch excefics in every kind of tice, that Cimna and Sertorius ordered their troons to fall upon them ; which being intantly put in execution, they were all cut ofit to a man.

By the deilruction of his guards, Manius was reduced to the neceflity of taking a methad of gratifying his revenge lomewhat more tedious, though equa : y effectual. A conrerence was held between the four chiefs, in which Marius feened gquite frantic with rage. Sertorias endeavoured to ronder the his fury; but, being overruled by Cima and Cai' $\quad$, a refflution was taken to murder wilkost mercy all the lemators who had oppoied the popular faction. This was immediately put in execution. A gereral finulter commenced, which lafted five days, and during which the greatelt part of the obonci us fenators were cut off, their heads fuck upon poles over-againit the roftra, and their bodies dragged with hooks into the forum, where they were left to be devoured by dogs. Syila's houfe was demolifhed, bis goods conffeated, and he himiclf ceclared an enemy to his country : however, his wife and children had the goot fortune to make their efape. This maffacre was not confined to the city of Rome. The foldiers, like as many blond-hounds, were difperfed over the country in fearch of thofe who fled. The ¥eighbouring towns, villages, and all the highways, fiwarmed with affafins; and on this occafion Plutarch obferves wilh great concern, that the molt facred ties of friend hip and hofpitality are not proof againlt treachery, in the day of adverfity, for there were but very few who did not difcover their friends who had tled to them for fhelter.

This flaughter being over, Cinna named himfelf and

Marius confuls fur the enfuing year; and thefe tyrants feemed refulved to begin the new year as they had ended the old one: bet, while they were preparing to renew their cruelties, Sylla, baving proved victorious in the eaft, fent a long letter to the fenate, giving an account of his many vif̂ories, and his refolution of returning to Rome, not to reffore peace to his country, but to revenge himfelf of his euemies, i. e. to deftroy thofe whom Marius had foared. This letter occafioned an univerfal terror. Marius, dreading to cater the litts with fuch a renowned warrior, gave himfelf up to exceffive drinking, and di.d. His fon was affuciated with Cinna in the government. though not in the confulftip, and proved a tyrant no lefs crucl than his father. The

Cinate declared one Vialerius Flaccus general, of the for Komp. ces in the eaft, and appunted him a confidetabie army; but the troups all to a man deferied him, and juined Sylla. Suon afier, Cimna declated himielf conful a thid time, and touk for kis colleague Fafivius Carbo; but the citizene, drcading the tyamy of thete inhuman moriters, iled in crumds to Sylla, who was now in Greece. Io him the fenate ient deputies, begging that he would have compation on his countiy, and not cirty his recentment to lucin a length as to begin a civil war: but he replied, that he was coming to Rome full of rage and revenge; and that all his cnemies, if the Roman people coniented to it, hould perilh, eilher by the tword or the axes of the executicners. U'por this fereral very numerous armies were formed againtt him; but, througn the mifeonduct of the generals wha commanded them, thele armics were everywhere de? feated, or went over to the eliemy. Pompey, after, wards fyled the Great, fig valized himfelf in (his war, and embaced the party of Sylla, The Italian mations tock fome one fide ar.d tome anoller, as 4 ieir cifierent incimaio s led them. Cinna, in the mean time, was killed in a tumult, and young Niarius and Carbo fucceeded him; but the former baving ventured an engagement wihh Sy!la, was by him defeated, and forced io ily: to Prandi., where be was clolely befieged.

Thus was Reme reduced to the loweft degree of Rense in milery, when one Pontius Telefinus, a Sammie of great the uimunt experience in war, projected the total ruin of the city ,trmer Fele He bad joined, or pretended to join, the generals of ul a the Marian faction wih an army of $40,080 \mathrm{men}$; and s.mante. then fore marched tasards Praneffe, as if he detigned to relieve Marius. By this means he drew Syl.a and Pompey away from the capital ; and then, decamping in the night, overraached thefe two generals, and ty break of day was within 10 furlongs of the Collatine gate. He then pulled off the malk; and declaring himfelf as much an enemy to Marius as. to. Sylla, told his troops, that it was not his defign to alfift one lion man againt another, but to deflroy the whole race. " Let fire and fivord (laid he) deftroy all; let no quaster be given ; manhind ean never be free as long as one Roman is left alive."-Never had this promd metropalis been in greater danger; nor ever had any city a more narrow efcape. The Romao youth marched out to oppofe him, but were driven back with great daughter. Sylla himfelf was deieated, and forced to fly to his camp. Telefinus advanced with more fury tban ever; but, in the mean time, the other uing of his army baving been defeated by M. Crafiss, the victorious general attacked the body where Tejefinus commanded, and by putting them to flight, faved his country from the moft imminent danger.

Sylla, having now no eneny, to fear, marched fin Monfions to Atemnx, and thence to Fiome. From the formor cruity of city he carried 8020 prifoners to Rome, and caufed Sy!a. them all to be maffacred at once in the circus. His cruelty next fell upon the Prepeftines, 12,000 of wliom were maflacred wiyhout mercy. Young Narius had killed himfelf, in order to ayoid falling into the hands of fuch a cruel enemy. Soon after, the inhabitants of Nurba, a city of Campania, finding themfelves unable to refill the forces of the tyrant, fee fire to th.cir Loufes, and all perilhed in the flanes, The tal,ing of theif. cilies put an end to the civil war, but pot to the cruek

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Rome. concluding the war with fuccefs.
ties of Sylla. Having afiembled the people in the comilium, be told them, that he was refolved not to fare a fingle perfon who had borne arms againft him. This expel refolution he put in execution with the mot unrelenting rigour; and having at lilt cut off all thole whom he thur ht capable of opposing hint, Syllis caved himelelf to be declared perpetual dictator, or, in other words thing and thbiolute lover ign of Rome.

This revolution happened bout 85 B. C. and from this time we many date the loft of the Roman liberty. Syliz indeed refined his power in two years; but the citizens of Rome having once fubmitted, were ever after more inclined to fubinit to a milter. Though individuals reamed he fame enthuf-atic notions of libetty as before, yet the minds of the gencrality fem from this time to lave indenes torratds monarchy. Now maters were indeed already prepared for the republic. Crelar and Pompey had eminem ty ditiaguifhed themfelves by their martial exploits, and wee area dy rivals. They were, however, for fume time prevented from raining any dietrisances by beng kept at a difance form each other. Seamius, one of the generals of the Maran faction, and the only one of them poffefied either of honour or probity, had retired into Spain, where he ere ted a rena' inc independent of Rome. Pompey and Metellus, tiro of the belt reputed generals in Rome, were font against him ; but instead of conquering, they were on all occafions conquered by him, and obliged to abandon their enterprife with difgrace. At lat Sertorios was treacherously murdered; and the traitors, who after his death usurped the command, being totally deftitute of his abilities, were eaflly defeated by Pompey: and thus that general reaped an undeferved honour from

The Spanith war was farce ended, when a very dangerous one wis excited by Spartacus, a Thracian gladiator. For fame time this rebel proved very faccoffful ; but at lat was totally defeated and killed by Craffus. The fugitives, however, rallied again, to the number of 5000 ; but, being totally defeated by Pomper, the latter took occafion from thence to claim the glory which was joffly due to Craffus. Being thus become extremely popular, and feting no bounds to his ambition, he was chofen consul along with Craffus. Both generals were at the head of powerful armies; and a contef between them immediately began about who Should firft lay down their arms. With difficulty they were in appearance reconciled, and immediately began to oppofe one another in a new way. Pompey courted the favour of the people, by reinflating the tribuns in their ancient power, which had been greatly abridged be Sylla. Craffus, though naturally covetous, entertained the populace with futprifing profusion at 10,000 tables, and at the fame time diftributed corn fufficient to maintain their families for three months.Thee prodigious expences will feer left furprifing, when we confider that Craffus was the richelt man in Rome, and that his efface amounted to upwards of 7000 talents, i. e. $1,356.2501$. fterling. Notwithfanding his utmoft efforts, however, Pompey fill had the fuperiority; and was therefore proposed as a proper perron to be employed for clearing the feas of pirates. In this new ffation a molt extensive prier was to be granted to him. He was to have an absolute authority for three years over all the feas within the flraits or Pillars of

Hercules, and over all the countries for the face of Rome. 400 furlongs from the fer. He was empowered to raife as na y lotdiers and mariners as he thought proper ; to take what fums of mong be pleated out of the public treasury without being accountable for them; and to choose out of the innate fifteen lenators to be his lieutenants, and to execute his orders when tie timbelf could not be prefent. The fenfiute part of the people were against inverting one $\mathrm{m}:$ a with to much porer; but the unthinking multitude rendered all opposition fruitless. The tribune R fcius attemp ed to Speak againt it, but was prevented by the clamours of the people. He then held up two of his fingers, to throw that he was for dividing that extensive commifion between two prions: but on this the affembly burt out into fuck hideous out cries, that a crow ilsiflg accidentally over the comitiun, was tanned with the noife, and fell down among the mable. This law being ayrexal to, Pompey executed his onminilion fo much to the public fatisfaction, that on his retum a new law was propold in his favour. B. this ne was to be appointed general of all the forces in Ain; and as he was til to retain the forcreignty of the fear, he was now in fact made fovercign of ail the Roman empire. - This law was supported by Cicero and Ceria, the former afpiring at the conflate, and the latter pleafed to fee the Romans to readily appointing themfelves a matter. Pompey, however, executed his commillion with the utnoit fidelity and fuccefs, complating the conqueft of Pontus, Albania, Iberia, \&c. which had been fuccefffully begun by Sylla and Lucultus.

But while Pompey wa. thus aggrandising himfelf, Conifirary the republic was on the point of being fubverted by a of Cation, conspiracy formed by Lucius Sergius Catiline. He was defended from an illuftrious family; but having quite ruined his elate, and rendered himself infamous by a Series of the mod deteftable crimes, he affociated with a number of others in circumftances fimilar to his own, in order to repair their broken fortunes by ruining their country. Their fcheme was to murder the confuls together with the greatelt part of the fenators, fit fire to the city in different places, and then feize the governmont. This wicked delign mifcarried twice: but was not on that account dropped by the conspirators. Their party increafed every day; and both Cefar and Craflus, who fine the departure of Pompey had flied to gainthe affections of the people as far as poofible, vice thought to have been privy to the conspiracy. At lats, however, the matter was difeovered by means of a young knight, who had indicrectly revealed the fecret to his paramour. Catiline then openly took the field, and fool raifed a confiderable army: but was utterly defeasted and killed about 62 B . C.; and thus the republic was freed from the prefent danger.

In the mean time, Collar continued to advance in popularity and in power. Soon after the defeat of Catiline, he was created pontifex maxims; and after that was font into Spain, where he fuirdued feveral nations that had never before been fubject to Rome. - While he was thus employed, his rival Pompey returned from the eat, and was received with the highelt honours; but ${ }^{-}$ though thill as ambitious over, he now affected extraordinary modelfy, and declined accepting of the applane which was ciferel him. His rim was to affume a ${ }^{2}$ fosercign authority without deeming to define it ; butt

## $\mathrm{R} O \quad \mathrm{M} \quad\left[\begin{array}{lll}166\end{array}\right] \quad \mathrm{R} O \quad \mathrm{M}$

Rome. he was foon convinced, that, if he defired to reign over his fellow-citizens, it mutt be by force of arms. He therefore renewed his intrigues, and fpared no pains, however mean and fcandalous, to increafe his popularity. Cæfar, on his return from Spain, found the fovereignty divided between Craflus and Pompey, each of whom was ineffectually ftruggling to get the better of the other. Cæfar, no lefs ambitious than the other two, propofed that they ftoould put an end to their differences, and take him for a partner in their power. In fhort, he projected a triumvirate, or affociation of three perfons, (Pompey, Craffus, and himfelf), in which fhould be lodged the whole power of the fenate and people; and, in order to make their confederacy more lafting, they bound themfelves by mutual oaths and promifes to Itand by each other, and fuffer nothing to be undertaken or carried into execution without the unanimous confent of all the three.

Thus was the liberty of the Romans taken away a fecond time, nor did they ever afterwards recover it ; though at prefent none perceived that this was the cafe, except Cato. The aflociation of the triumvirs was for a long time kept fecret; and nothing appeared to the people except the reconciliation of Pompey and Craffus, for which the ftate reckoned itfelf indebted to Ceffar. The firf confequence of the triumvirate was the confulthip of Julius Cæfar. But though this was obtained by the favour of Pompey and Craffus, he found himelf difappointed in the colleague he wanted to affociate with him in that office. He had pitched upon one whom he knew he could manage as he pleafed, and diftributed large fums among the people in order to engage them to vote for him. The fenate, however, and even Cato himfelf, refolved to defeat the triumvir at his own weapons; and having therefore fet up another candidate, diftributed fuch immenfe fums on the oppofite fide, that Cæfar, notwithftanding the vaft riches he had acquired, was forced to yield. This defeat proved of fmall confequence. Cafar fet himfelf to engage the affections of the people; and this he did, by an agrarian law, fo effectually, that he was in a manner idolized. The law was in itfelf very reafonable and juft; neverthelefs, the fenate, perceiving the defign with which it was propofed, thought themfelves bound to oppofe it. Their oppofition, however, $\rightarrow$ proved fruitlefs: the conful Bibulus, who fherved himfelf moft active in his endeavours againft it, was driven out of the affembly with the greateft indignity, and from that day became of no confideration ; fo that Cæfar was reckoned the fole conful.

The next ftep taken by Cæfar was to fecure the krights, as he had already done the people; and for this purpofe he abated a third of the rents which they annually paid into the treafury; after which he governed Rome with an abfolute fway during the time of his confulate. The reign of this triumvir, however, was ended by his expedition inte Gaul, where his military exploits acquired him the higheft reputation.Pompey and Craffus in the mean time became confuls, and governed as defpotically as Cæfar himfelf had done. On the expiration of their firf confulate, the republic fell into a kind of anarchy, entirely owing to the diforders occafioned by the two late confuls. At laft, however, this confufion was ended by raifing Craflus and Pompey to the confulate a fecond time. This was no fooner done, that a new partition of the empire was
propoied. Cleflis was to have Syria and all the eaftern Rome. provinces, Pompey was to govern Africa and Spain, and Cefar to be continued in Gaul, and all this for the fpace of five years. This law was paffed by a great majority; upon which Crafius undertook an expedition againft the Parthians, whom he imagined he fhould eafily overcome, and then enrich himfelf with their fpoils; Cæfar applied with great affiduity to the completing of the conqueft of Gaul; and Pompey having nothing to do in his province, ftaid at Rome to govern the republic alone.

The affairs of the Romans were now haftening to a crifis. Craffus, having oppreffed all the provinces of the caft, was totally defeated and killed by the Parthians ${ }^{* *}$; after which the two great rivals Cxfar and * See Para Pompey were left alone, without any third perfon who thia. could hold the balance between them, or prevent the 192 deally quarrels which were about to enfue. Matters Rivalihip however, continued pretty quiet till Gaul was reduced and Pomto a Roman province $\dagger$. The queftion then was, whe-pey. ther Cefar or Pompey fhould firft refign the command $\dagger$ See Gavh. of their armies, and return to the rank of private perfons. As both parties faw, that whoever firf laid down his arms muft of courfe fubmit to the other, both refufed to difarm themfelves. As Cæfar, however, had amaffed immenfe riches in Gaul, he was now in a condition not only to maintain an army capable of vying with Pompey, but even to buy over the leading men in Rome to his intereft. One of the confuls, named Amilius Paulus, coft him no lefs than 1500 talents, or 310,625 l. flerling; but the other, named Marcellus, could not be gained at any price. Pompey had put at the head of the tribunes one Scribonius Curio, a young patrician of great abilities, but fo exceedingly debauched and extravagant, that he owed upwards of four millions and a half of our money. Cefar, by enabling him to fatisfy his creditors, and fupplying him with money to purfue his debaucheries, fecured him in his intereft; and Curio, without feeming to be in Cafar's intereft; found means to do him the moft effential fervice. He propofed that both generals fhould be recalled; being well affured that Pompey would never confent to part with his army, or lay down the government of Spain with which he had been invelled, fo that Cafar might draw from Pompey's refufal a pretence for continuing himfelf in his province at the head of his troops. This propofal threw the oppofite party into great cmbarrafments; and while both profeffed their pacific intentions, both continued in readinefs for the moft obftinate and bloody war.Cicero took upon himfelf the office of mediator; but Pompey would hearken to no terms of accommodation. The orator, furprifed to find him fo obtrinate, at the fame time that he neglected to flrengthen his army, afked him with what forces he defigned to make head againft Cafar? To which the other anfwered, that he needed but ftamp with his foot, and an army would flart up out of the ground. This confidence he affumed becaufe he perfuaded himfelf that Crfar's men roould abandon him if matters came to extremities. Cafar, however, though he affected great moderation, yet kept himfelf in readinefs for the worit ; and therefore, when the fenate pafied the fatal decree for a civil war, he was not in the leaft alarmed. This decree was iffued in the The decre year $49 \mathrm{~B} . \mathrm{C}$. and was expreffed in the following words: for a civil "Let the confuls for the year, the proconful Pompey, war.

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Rome. the pretors, and all thofe in or near Rome who have been conluls, provide for the public fafely by the molt proper means." This decree was no fooner pafied, than the conful Marcellus went, with his colleague Lentulus, to an houfe at a fmall diftance from the town, where Pompey then was; and prefenting him with a fword, " We require you (faid he) to take upon you with this the defence of the republic, and the command of her troops." Pompey obeyed ; and Cæfar was by the fame decree divefted of his office, and one Lucius Domitius appointed to fucceed him, the new governor being em powered to raife 4000 men in order to take poffeflion of his province.

War being thus refolved on, the fenate and Pompey began to make the neceflary preparations for oppofing Cæfar. The attempt of the latter to withitand their authority they termed a tumult; from which contemptible epithet it appeared that they either did not know, or did not dread, the enemy whom they were bringing upon themfelves. However, they ordered 30,000 Roman forces to be affembled, together with as many foreign troops as Pompey fhould think proper ; the expence of which armament was defrayed from the public treafury. The governments of provinces, and all public honours, were beftowed upon fuch as were remarkable for their attachment to Pompey and their enmity to Cæfar. The latter, however, was by no means wanting in what concerned his own intereft. Three of the tribunes who had been his friends were driven out of Rome, and arrived in his camp difguifed like flaves. Crefar fhowed them to his army in this ignominious habit; and, fetting forth the iniquity of the fenate and patricians, exhorted his men to ftand by their general under whom they had ferved fo long with fucceff; and finding by their acclamations that he could depend on them, he

The activity of Cæfar flruck the oppofite party with the greateft terror; and indeed not without reafon, for they had been extremely negligent in making preparations againit fuch a formidable opponent. Pompey himielf, no lefs alarmed than the relt, left Rome with a defign to retire to Capua, where he had two legions whom he had formerly draughted out of Cafar's army. He communicated his intended tiight to the fenate ; but at the fame time acquainted them, that if any magiltrate or fenator refuled to follow him, he ftould be treated as a friend to Cæfar and an enemy to his country. In the mean time Ceffar, having raifed new troops in Cifalpine Gaul, fent Marc Antony with a detachment to feize Aretium, and fome other officers to fecure Pifaurum and Fanum, while he himfelf marched at the head of the thirteenth legion to Auximum, which opened its gates to him. From Auximum he advanced into Pi-Take5 cenum, where he was joined by the twelfth legion from ral towns. Tranfalpine Gaul. As Picenum readily fubmitted to him, he led his forces againft Corfinium, the eapital of the Peligni, which Domitius Ahenobarbus clefended with thirty cohorts. But Ciefar no fooner invefted it, than the garrifon betrayed their commander, and delivered him up with many fenators, who had taken refuge in the place, to Cafar, who granted them their lives and liberty. Domitius, fearing the refentment of the conqueror, had ordered one of his flaves, whom he ufed as a phyfician, to give him a dofe of poiton. When he came to experience the humanity of the conqueror, he lamented his misfortune, and blamed the baltinefs of his own refolution. But his phyfician, who had only given him a fleeping draught, comforted him, and received his liberty as a reward for his affection.

Pompey, thinking himfelf no longer fafe at Capua Befieges after the reduction of Corfinium, retired to Brundu- Pompey, fium, with a defign to carry the war into the eaft, who eicapes where all the governors were his creatures. Cæfar followed him clofe; and arriving with his army before Brundufium, invefted the place on the land-lide, and undertook to thut up the port by a ftaccado of his own invention. But, before the work was completed, the flect which had conveyed the two confuls with thirty cohorts to Dyrrhachium being returned, Pompey refolved to make his efcape, which he conducted with all the experience and dexterity of a great officer. He kept his departure very fecret; but, at the fame time, made all neceffary preparations for the facilitating of it. In the firft place, he walled up the gates, then dug decp and wide ditclies crofs all the ftrcets, except only thofe two that led to the port ; in the ditches he planted fharp pointed flakics, covering them with hurdles and earth. After thefe precautions, he gave exprefs orders that all the citizens fhauld keep within doors, left they fhould betray his defign to the enemy; and then, in the fpace of three days, embarked all his troops, except the light-armed infantry, whom he had placed on the walls; and thefe likewife, on a fignal given, abandoning their polts, repuired with great expedition to the Ghips. Citfar, perceiving the walls unguarded, ordered his men to fcale them, and make what hafte they could after the enemy. In the heat of the purfuit, they would have fallen into the ditches which Pompey had prepared for them, had not the Brundufians warned them of the danger, and, by many windings and turnings, led them to the haven, where they found all the fleet under fail. except except two vefiels, which had run aground in going out of the ha:bour. Thefe Cleffar took, made the foldiers on board prifoners, and brought them afhore.

Cæfar, feeing himfelf, by the flight of his rival, mafter of all Italy from the Alps to the fea, was defirous to follow and attack him before he was joined by the fupplies which be expected from Afia. But being deftitute of hhipping, he refolved to go firft to Rome, and fettle fome fort of government there; and then pafs into Spain, to drive from thence Pompey's troops, who had taken poffecifion of that great continent, under the command of Afranius and Petreius. Before he left Brundufium, he fent Scribonius Curio with three legions into Sicily, and ordered 0. Valerius, one of his lieutenants, to get together what flips be could, and crofs over with one legion into Sardinia. Cato, who commanded in Sicily, upon the firf news of Curio's landing there, abandoned the ifland, and retired to the camp of the confuls at Dyrrbachium; and $Q$. Valerius no fooner appeared with his fmall fleet off Sardinia, than the Caralitini, now the inhabitants of Cagliari, drove out Aurelius Cetta, who commanded there for the fenate, and put Cexar's lieutenant in poffeffion both of their city and illand.

In the mean time the general himfelf advanced to- tors then in Italy, defiring them to repair to the capital, and affift him with their counfel. Above all, he was defirous to fee Cicero; but could not prerail upon him to return to Rome. As Cofar drew near the capital, be quartered his troops in the neighbouring municipia; and then advancing to the city, out of a pretended refpect to the ancient cuftoms, he took up his quarters in the fuburbs, whither the whole city crowded to fee the famous conqueror of Gaul, who had been abfent near ten years. And now fuch of the tribunes of the people as had fled to him for refuge reaffumed their functions, mounted the roltra, and endeavoured by their fpeeches to reconcile the people to the head of their party. Marc Antony particularly, and Caffius Longinus, two of Cuefar's moft zealous partifans, moved that the fenate fhould meet in the fuburbs, that the general might give them an account of his conduct. Accordingly, fuch of the fentors as were at Rome aficmbled ; when Cax made a fneech in jullification of all his proceedings, and concluded his harzngue with propoing a depulation to Penreer, with offers of an accommedation in an amicable manner. He even defireed the confeript fathers, to whom in appearance he paid great deference, to nominate fome of their venerable Body to carry propofals of peace to the confu's, and the general of the confulin army ; but none of the fenators would take upon him that commifion. He then began to think of providing hinfelf with the neceflary fums for carrying on the war, and had recourfe to the publie treafury. Put Metellus, one of the tribunes, oppofed him: alleging a law forbidding amy one to open the treasury, but in the refence and with the confent of the confuls. Ceffar, $b$ wever, wihout regardify the tribune, went diectly to the temple of S:lum, whiere the public money was kept. But the keys of the tritifury laving been carried awny by the conful Lentulas, he orde ed the doars to te brokin epen. Tlis Metellus oppoitd : but Catas, in a p fien, laying lis hand on his froord, threatened to kiiil him if he gave han any

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fartber difurbance; which fo terrified Metellus, that he withdrew. Carfar tock out of the trealu:y, which was ever aiter at his command, an immenfe fum ; fome lay, 300,050 prounds weight of gold. With this lupply of money he ratied troops ail over Italy, and fent go vernors into all the provinces fubject to the republic.

Cæinr now made. Marc Antony commander in chief of the arnies in fitaly, fent his brother C. Antonius to goven Iliyricum, affigned Ciialpine Gaul to Licinius Craflus, aprointed M. Aimilius Lepidus governor of the capital ; and having got together fome ihips to cruife in the Adriatic and Miediterranean leas, he gave the command of one of liis fleets to P. Cornelius Dolabella, and of the other to young Hortenfius, the fort of the famous orator. As Pompey had fent governors into the fame provinces, by this means a getieral war was kindled in almoft all the paris of the known world. However, Cefar would not truft any of his lieutenants with the conduet of the war in Spain, which was Pompey's favourite province, but took it upon himfelf; and having fettled his affairs in great haffe at Rome, returned to Ariminum, affembled his legions there, and paffing the Alps, entered Tranialpine Gaul. There he was informed that the inhabitants of Miartilles had refolved to refufe him entrance into their city; and that L. Domitius Ahenobarbus, whom he had generoully pardoned and fet at liberty after the reduction of Corfinium, had fet fail for Marfeilies with feven galleys, baving on board a great number of his clients and flaves, with a defign to raife the city in favour of PomFey. Cafar, thinking it dangerous to let the enemy take pofieflion of luch an important place, fent for thee 15 chief magitrates of the criy, and adviled them not to begin a war with him, but rather follow the examp.e of ltaly, and fubmit. The magifirates returned to the city, and foon after informed him that they were to ftand neuter; but in the mean time Domitius arriving with his fimall fquadron, was received into the city, and declared general of all their forces. Heseupen Caflar immediately invef.ed the town with three legions, and ordered tweive gallevs to be built at Areles, now Arles, in order to block up the port. But as the fiege was like to det.in him too leng, he left C. Treborius to carty it on, and D. Brutus to command the fleet, while re contimued his march into Spain, where he began the war with all the valour, ability, and fuccess of a sre.t. general. Pompey had three generals in this continent, which was divided into two Peman provinces. Varro commanded in Farther Spain; and Petreius and Afranius, with equal power, and two confide able armies, in Ilither Spain. Ceefar, whife he was yet at Marfeilles, fent (). Fabius, one of his lieutenants, with three legions, to tilie poffeflion of the pafies of the Pyıences, which A fremius had feized. Fabius executed his comn.ifion with great bravery, entered Sjain, and left the way open fer Caflar, who quickly follorred kim . As foon as be hid crofled the mountains, te fent. out feculs to obferve the fituation of the enemy; by whom he was informed, that Afranius and Petreius baving joined their forces, con fifing of fre legions, 20 cchoots of the natives, and soco hoife, were advantugcoufly poffed on an hill of an a) afern in the neig't ourbood of Iierdz, now Lerida, if Catalaria. Upon this advice Calar adranced nithin fight of the eremy, and elcamped in a plain between the Sicaris a.i.d Cinga, now the Srgro and Cinca. Be-

199 Is reduced tu great difretio in Spain.
tween the eminence on which Afranius had polted himfelf, and the city of llerda, was a faall plain, and in the middle of it a riling ground, which Cæfar attempted to feize, in order to cut off by that means the communication between the enemy's camp and the city, from whence they had all their provifions. This occafioned a Cuarp difpute between three of Ciefar's legions and an equal number of the enemy, which lafted five hours with equal fuccefs, both parties claining the victory. But after all, Afranus's men, who had firlt fized the pott, maintained themfelves in potionon of it in fpite of Cæfar's u:moft efforts Two days af:er this battle, continual rains, with the meling of the finow on the mountains, fo fweiled the two rivers between which Cufar was encamped, that they overflowed, breke durn his bridges, and laid under water the neighbouri:g country to a great diftance. This cut off the communication between his camp and the cities that had ceclared for him; and reduced him to fuch ftraits, that lis army was ready to die for famine, wheat leing fold in his eamp at 50 Roman denarii per buflel, that is, 11. 12 s . $y_{2} \mathrm{~d}$. fterling. He tried to rebuild lis bridges, but in vain; the violence of the fiream rendering all his cndeavours fruitlefs.

Upon the news of Cæfar's ditrers, Pompev's party at Rome began to take courage. Several peifons of diltinction went to congratulate 4 franius's wife on the fuccefs of her hufband's arms in Spain. Mrany of the fenators who had hitherto ftood neuter, haftered to Pompey's camp, taking it for granted that Cre'ar was reduced to the laft extremity, and all hopes of his party loit. Of this number was Cicero; who, wilhout any regard to the remonftrances of Atticus, or the letters Cefar himfelf wate to lim, defiring bim to juin neither party, left Italy, and landed at Dy:rhachium, where Pompey received him with great marks of joy and fricadihip. But the joy of Pompey's party wis not long-lived. For Cefar, after having attempted feveral times in vain to rebuild his bridges, cauled bonts to be made with all pofliole expedition; and while the enemy were diverted by endeavouring to intercept the fuccours that were fent him from Gaul, he laid hold of that opportunity to convey his boats in the night on carriages 22 miles from his camp; where with wonderful quicknefs a great detachment pafied the Sicoris, and encamping on the oppofite bank unknown to the enemy, built a bridge in two days, opened a communication with the neighbouring country, received the fupplies from Gaul, and relieved the wants of his foldiers. Cxfar being thus delivered from danger, purfued the armies of Afranius and Petreius wi:h fuch firperior addrefs and conduct, that he forced them to fubmit without coming to a battle, and by that means became mafter of all Hither Spain. The two generals difbanded their troops, fent them out of the province, and returned to Italy, after having folemnly promifed oever to affemble forces again, or make war upon Cafar. Upon the news of the reduction of Hither Spain, the Spaniards in Farther Spain, and one Roman legion, deferted from Varro, Pompey's governor in that province, which obliged him to furrender his other legion and all his mrney.

Cofar having thus reduced all Spain in a few months, appointed Caffus Longinus to govern the two provinces with four legions, and then returned to Marfeilles; Vol XVIII. Part 1
which city was juft upon the point of furrendering after
a moft vigorous refiftance. Though the inhabitants had by their late treachery deferved a levere punifhment, yet he granted them their lives and liberty; but ftripped their arfenals of arms, and obliyed them to deliver up all their thips. From Marfeilles Cæfar marched into Cifalpine Gaul; and from thence haftened to Rome, where lie laid the foundation of his future grandeur. He found the city in a very different ftate from that in which he had left it. Moft of the fenators and magi-Returns to frates were fled to Pompey at Dyrrhachium. How- Rome, aud ever, there were ftill practors there; and among them is cieated M. Emilius Lepidus, who was afterwards one of the dielator. triumsiss with Octavius and Marc Antony. The preetor, to ingratiate himfelf with Cafar, nominated him dictator of his own authonity, and againt the inclination of the fenate. Cæfar aecepted the new dignity; but neither akufed his power, as Sylla had done, nor retained it fo long. Daring the 11 days of his dictatorfip, he governed with great moderation, and gaincd the affections both of the people and the patricians. He recalled the exiles. granted the rights and privileges of lioman citizens to a!1 the Gauls beyond the Po, and, as pontifex maximus, fuled up the vacancies of the facerdota! colleges with his own friends. Though it was expected that he would have abfolutely concelled all de'ts contrasted fince the beginning of the troubles, he only reduced the intereit to one-fonrth. But the chief the he male of his dictatornlip was to prefide at the elcction of confuls for the next year, when he got himIN1f, ard Servilius Ifanicus, one of his moll zeatus partians, promoted to that dignity.

And now being refolved to follow Pompev, and carry Follow the war into the catt, he fet out for Brunduhium, wifi- Pompry ther be lad ordered 12 legions to repair with all por-into the fible expedition. But on his anival he furud only five ${ }^{\text {eaft. }}$ there. The ral, being afraid of the dangers of the fea, and unwiling to e"gage in a new var, had marched leifure'v. complainity of their general for allowing them no reffite, but hurying them continually from one countyy to another. Howcicr, Cofar did not wait for them, but fct fail with only five legions and 600 horfe in the beginning of January. While the reft were waiting at Brundufium for thips to tranfpart them over into Epirus, Cefar arrived fafe with his five legions in Chaonia, the northern part of $E$ irus, near the Ceraunian mountains. There he lauded his troops, and fent the Mips back to Brundufium to bring over the legions that were left behind. The war he nas now eutering upon was the moft difficult he had yet undertaken. Pompey had for a whole year been affembling troops from all the eaferm countries. When be left Italy, he had only five legions; but fince his arrival at Dyrrlachium he had been reinforced with one from Sicily, another from Crete, and two from Syria. Three thoufand archers, fix coliorts of ningers, and feven thoufand horfe, had been fent him by princes in aliance with Rome. All the fiee cities of Aila lad reinfurced his army with their beft troops; nay, if we give credit to an hiftorical poet, fuccours were brought him from the Indus and the Ganges to the caft, and from Arabia and Ethiopia to the fouth; at leaft it is certain, that Greece, $\Lambda$ fia Minor, Syria, Paleftine, Egypt, and all the nations from the Mediterranean to the Euphrates, tork up arms in bis favour. He bad almoft all the Koman knights,
that is, the flower of the young nobility, in his fquadrons, and his legions confitted moitly of veterans inured to dangers and the toils of war. Pompey himfelf was a general of great experience and addrets; and had under him fome of the bett commanders of the republic, who had ferreerly conducted armies themfelves. As for his navy, he had above 500 thips of war, befides a far greater number of fmail veffels, which were continualiy crurfing on the coalts, and intercepted fuch fhips as carried arms or provtions to the enemy. He had likewife with him above 200 tenators, who formed a more numerous fenate than that at Rome. Cornelius Lentulus and Claudius Marcellus, the latt year's confuls, prefided in it ; but under the direction of Pompey their protector, who ordered them to affemble at Theffalonica, where he built a ftately hall for that purpofe. There, in one of their affembilies, at the motion of $\mathrm{Ca}-$ to, it was decreed, that no Roman citzzen thould be put to death but in battle, and that no city fubject to the republic fhould be facked. At the fame time the confeript fathers affembled at Theffalonica decreed, that they alone reprefented the Roman fenate, and that thofe who refided at Rome were encouragers of tyranny, and friends to the tyrant. And indeed, as the flower of the nobility was with Pompey, and the moft virtuous men in the republic had taken refuge in his camp, he was generally looked upon as the only hope and fupport of the public liberty. Hence many perfons of eminent probity, who had hitherto ftood neuter, flocked to him from all parts. Among thefe were young Brutus, who afterwards confpired againft Ceefar, Tidius Sextius, and Labienus. Brutus, whole father had been put to death in Galatia by Pompey's order, had never fpoken to hiun, or fo much as faluted him fince that time : but as he now looked upon him as the defender of the public liberty, he joined him, facrificing therein his private refentment to the intereft of the public. Pompey received bim with great joy, and was willing to confer upon him fome command; but he declined the offer. Tidius Sextius, though extremely old and lame, yet left Rome, and went as far as Macedonia to join Pompey there. Labienus likewife forfook his old benefactor, under whom he had ferved during the whole courfe of the Gaulihh war, and went over to his rival, though Cefar had appointed him commander in chief of all the forces on the other fide the Alps. In fhort, Pomvey's pary grew into fuch reputation, that his caufe was generally called the good coufe, while Cafar's adherents were looked upon as enemies to their country, and abettors of tyranny.

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rujectud.

As foon as Ceffar landed, he marched directly to Oricum, the neareff city in Epirus, which was taken without oppofition. The like fuccefs attended him at Apollonia, which was in no condition to fland a fiege; and thefe two conquefts opened a way to Dyrrhachium, where Pompey had his magazincs of arms and provifions. This furcefs, however, was interrupted by the news that the Heet which he had fent back to Brundufium to tranfport the reft of his troops had heen attarked by Bibuluc, one of Pompey's admirals, who had taken 30 , and inhumenly buant them with the feamen on board. This gave Ciefar great uneafinefs, efpecially as he heard that Bibulus, with 110 fhips of war, had taken poffeffion of all the harbours between Salonium and Oricum; fo that the legions at Brunduifum could not venture to
crofs the fea without great danger of falling into the Rome. enemy's hands. By this Cæfar was fo much embarraffed, that he made propofals of accommodation upon very moderate terms ; being no other than that both Pompey and he thould difband their armies within three days, renew their former friendfhip with folemn oaths, and return together to Italy. Thefe propofals were fent by Vibullius Rufus, an intimate friend of Pompey, whom Cæfar had twice taken prifoner. Pompey, however, probably elated with his late good fortune, anfwered that he would not hearken to any terms, left it fhould be faid that he owed his life and return to Italy to Cæfar's favour. However, the latter again fent one Vatinius to confer with Pompey about a treaty of peacc. Labienus was appointed to receive the propofals; but while they were conferring together, a party of Pompey's men coming up to them, difcharged their darts at Vatinius and thofe who attended him. Some of the guards were wounded, and Vatinius narrowly efcaped with his life.

In the mean time $\mathrm{C}_{\text {effar }}$ advanced towards Dyrrhachium, in hopes of furpriang that important place; but Pompey unexpectedly appearing, he halted on the other fide of the river Apius, where he intrenched himfelf, as having but a fmall number of troops in comparifon of the formidable army which attended Pompey. The latter, however, notwithiftanding his fuperiority, durft not crofs the river in Cafar's fight ; fo that the two atmies continued for fome time quiet in their refpective camps. Cæfar wrote letter after letter to Marc Antony, who commanded the legions he had left in Italy, to come to his affiftance; but receiving no anfwer, Cæfar difguifed himfelf in the habit of a flave, and with all imaginable fecrecy went on board a fifherman's bark, with a defign to go over to Brundufium, though the enemy's theet was cruifing on the coafts both of Greece and Italy. This defign, however, mifcarried, by reafon of the boatbeing put back by contrary winds; and thus Cæfar was reftored to his foldiers, who had been very uneafy at his abfence. He was no fooner landed than he difpatched Poilhumius, one of his lieutenants, with moft preffing orders to Marc Antony, Gabinius, and Calenus, to bring the troops to him at all adventures. Gabinius, unwilling to expofe all the hopes of his general to the hazards of the fea, thought it fafer to march a great way about by Illyricum, and therefore engaged all the legionaries he could to follow him by land. But the Illyrians, who had, unknown to him, declared for Pompey, fell unexpectedly upon him and killed him and his men, not one efcaping. Marc Antony and Calenus, who went by fea, were in the greatelt danger from one of Pompey's admirals; but had the good luck to briag their troops fafe to flore at Nyphoum, in the neighbourhood of Apollonia. As foon as it was known that Antony was landed, Pompey marched to prevent his joining Cafar. On the other hand, Cafar inflan:ly decamped, and haftening to the relief of his licutenant, joined him before Pompey came up. Then Pompey, not caring to engage them when united, retired to an advantageous polt in the neighbourhood of Dyrrhachiuna, known by the name of $A$ paragium, and there encamped. Crefar having thus at length got all his troops together, refolved to finifh the war by one general action, and determine the fate of the world, either by his own death or by that of his rival. To this end he of-

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fered Pompey battle, and kept his army a great while drawn up in fight of the enemy. But Pompey declining an engagement, he decamped, and turned towards Dyrrhachium, as if he defigned to furprife it, hoping by this means to draw Pompey into the plain. But Pompey, looking upon the taking of Dyrrhachium as a chimerical project, followed Cæfar at fome diftance, and letting him draw near to the city, encamped on a hill called Petra, which commanded the fea, whence he could be fupplied with provifions from Greece and Afia, while Cæfar was forced to bring corn by land from Epirus, at a vaft expence, and through many dangers.

This inconvenience put Caefar upon a ne:v defign, which was to furround an army far more numerous than his own, and, by fhutting them up within a narrow tract of ground, diftrefs them as much for want of forage as his troops were diffreffed for want of corn. Purfuant to this delign, he drew a line of circumvallation from the fea quite round Pompey's camp, and kept him fo clofely blocked up, that though his men were plentifully fupplied with provitions by fea, yet the horfes of his army began foon to die in great numbers for want of forage. Cæfar's men, though in the utmoit dillefs for want of corn, yet bore all with incredible cheerfulness; protefting that they would rather live upon the bark of trees than fuffer Pompey to efcape, now they had him in their power. Cefar tells us, that in this extremity fuch of the army as had been in Sardinia found out the way of making bread of a certain herb called clara, which they fteeped in milk; and that when the enemy infulted them on account of the ftarving condition which they were in, they threw feveral of thefe loaves among them, to put them out of all hopes of fubduing them by famine. "So long as the earth produces fuch roots (faid they), we will not let Pompey efcape." At length Pompey, alarmed at the diftempers which began to prevail in his army, made feveral attempts to break through the barriers that inclofed him, but was always repulied with lofs. At length, being reduced to the ntmoft extremity for want of forage, he refolved at all events to force the enemy's lines and efcape. With the affiftance, therefore, and by the advice of two deferters, he embarked his archers, flingers, and light-armed infantry, and marching himfelf by land at the head of 60 cohorts, went to attack that part of Cefar's lines which was next to the fea, and not yet quite finihed. He fet out from his camp in the dead of the night, and arrivits at the polt he defigued to force by break of day, he began the attack by fen and land at the fame time. The ninth legion, which defended that part of the lines, made for fome time a vigorous reiftance; but being attacked in the rear by Pompey's men, who came by fea, and landed between Cefar's two lines, they fled with fuch precipitation, thet the fuccours Marccilinus fent them from a neighbouring pof couid not fop them. The onfime who carried the eagle at the head of the routed leceion was mortally wounded; bit neverthelefs, before he died, had prefonce of riund enough to confign the eagle to the cavalsy of the party, defiring them to deliver it to Cixar. Pompey's men purfied the fugitives, and made fuch a flaughter of them, that all the centuions or the firt cohort were cut off except one. And now Pomyey's army broke in like a torrent upon the pofts Cæfar had fortibizd, and were advancing to altack Marcellinus, who
guarded a neighbouring fort ; but Marc Antony coming Rone. $\underbrace{\text { R }}$ very feafonably to his relief with 12 cohorts, th:y thought it advilable to retire.

Soon after Ciefar himfelf arrived with a ftrong reinforcement, and pofted himfelf on the thore, in order to C -fir io prevent fach attempts for the future. From this profi eat : .n. : he obferved an old camp which he had made within the place where Pompey was inclofed, but afterwards ab ndoned. Upon his quitting it. Pompey had taken poffeffon of it, and left a legion to guard it. This poft Cafar refolved to reduce, hoping to repair the lofs he had fuflained on this unfortunate day, by taking the lcgion which Pompey had pofted there. Accordingly, he advanced fecretly at the head of 33 cohorts in two lines: and arriving at the old canap before Pompe: could have notice of his march, attacked it with greit vigour, forced the firlt intrenclment, notrithtanding the brave refiltance of Titus Pulcio, and renctrated to the fecond, whither the legion had retired. But here his fortune clianged on a fudden. His right wing, is looking for an entrance into the camp, marched along the outfide of a trencls which Cxfar had formerly carried on from the left angle of his camp, about 400 paces, to a neiglabouring river. This trench they miftook for the rampart of the camp; and being led away by that miftake from their left wing, they were foon after prerented from rejoining it by the arrival of Pompey, who came up at the head of a legion and a large body of horfe. Then the legion which Cælar had attacked taking courage, made a brifk 〔ally, drove his men back to the firft intrenchment which they had feized, and there put them in great diforder while they were attempting to pafs the ditch. Pomnes, in the mean time, falling upon them with his cavalry in flank, completed their defeat; and then flying to the enemy"s right wing, which had paffed the trench mentioned above, and was fhut up between that and the ramparts of the old camp, made a moft dreadful flaughter of them. The trench was filled with dead bodies, many falling into it in that diforder, and others paffing over them and preffing them to death.

In this diftrefs, Cafar did all he could to ftop the tlight of his legionaries, but to no purpofe: the fland-ard-bearers themfelves threw down the Foman eagles when Crefar endeavoured to ftop them, and left them in the hands of the enemy, who on this occafion took 32 ftandards; a difurace which Cæfar had never fuffered before. He was himfelf in no fmall danger of falling by the hand of one of his nwn men, whom he took hold of when flying, bidding him ftand and face about ; but the man, apprehenfive of the danger he was in, drew his fword, and would have killed him, had not one of his guards prevented the blow by cutting off his arm. Ciefar loft on t! is occafion 960 of his fout, 400 of his horfe, 5 tribunes, and 32 centurions.

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This lofs and difurace greatly mortified Crefar, but Heretiseves did not dicourage him. Afier lie had by his lenity his affairs, and cloquent feeches reenvered the feirit of his rroops, he decamped, and retired in groot order to Apollonia, where he paid the armv, and left his fick and waurded. From thence he marrhed into Macedon, where Scipio Tetellus, Pompey's fither-in-law, was encamped. He hoped cither to draw his rival into fome plain, or to overpower Scipio if not aiflted. He met with great difficulties on his march, the countrics through which

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R:ape he paffed refuing to fupoly his army with provifions; to fuch a degree was his reputation lunk fince his laft defeat! Oa nis emering Theflialy he was met by Domitus, one of his licutenants, whom he bad fent with three legions to reduce Epirus. Having now got all his forces together, he marched directiy to Gomphi, the fila torn of Thefizly, which had been formerly in his interett, but now declared againtt him. Whercupon he attacked it with fo much vigour, that though the garition was very numerous, and the walls were of an uncommon height, he made himfelf maiter of it in a feiv heuss. From hence he marched to Netropolis, another confiderable town of Thieffaly, which immediately furrendered; as did all the other cities of the couiltry, exsept Larifid, of which Scipio had made himielf mafte:.

Oa the other liand, Pompey being continually importuned by the fenators and olficers of his army, left his camp at Dyrrhachium, and followed Celar, firmly refolved not to give him battle, but rather to diftrefs him by keeping clofe at his heels, ftraitening his quarters, and cutting off his convoys. As he had frequent opportunitics of coming to an engagement, bat ahways declined it, his friends and fubaltorns began to put ili conftruetions on his dilatorinefs to his face.

Tbefe, together with the complaints of his foloiers, made him at length refolse to venture a general action. With this defign he marched into a large plain near the cities of Pharlalia and Thebes; which latter was alfo called Philipps, from Philip king of Macedon, and the father of Peries, who, liaving reduced the Thebans, placed a colony of Macedonians in their city. This pl in was watered by the Enipeus, and furrounded on all fides by high mountains; and Pompey, who was itill averie from venturing an engagement, pitched his camp on the declivity of a fteep mountain, in a place altogether inacceffibie. There he was joined by Scipio his father-in-law, at the head of the legions which he had brought with him from Syria and Cilicia. But notwithfanding this reinfoicement, he continued itrefolute, and unwilling to put all to the iriue of a fingle aetion; being ftill convinced of the viidom of his maxim, that it was better to deftroy the enemy by fatigues and want, than to engage an army of brave vetarans, who were in a manner reduced to defpair. is be put off foom day to day, under varions pretences, defconding into the plain whese Ciefar was encamped, his officers forces him to call a council of war, when all to a man were for vesturing a gencral act.on the very next duy. Thus was Penpey obliged to facrifice his own judgement to the blind ardour of the mulitive; and the neceffary meafirs were taken for a generil ciagagement.

The event of this battle was in the highaft degree fortanate for Cieirar + ; who refolved to purfue his alvantage, and follow Pompey to whatever ccuntry le Diould retire. Hearing, therefore, of his being at Amphip i. $\cdot$, he fent off his troops before him, and then cmharked on beard a litt'e frigate in order to crols the Hellefport; but in the middle of the ftrait, he fell in with one of Pompes's commanders, at the head of ten Ghips of war. Cæfar, noway terrified at the fuperiority of his force, bore up to him, and commanded him to fubmit, The other intantly obeyed, awed by the ter-
ror of Cafar's name, and furrendered hinfeli a: i his fleet at difcretion.

From thence he continued his voyage to Ephefue, then to Rhodes; and being informed that Pomrey had been there !efore him, ho made no doubt but that he was fied to K.sypt ; wheretore, lofing no time, he fet fail for that hingdom, and arrived at Alexandria with about 4000 men; a very inconfiderable force to keep fuch a powerful hingaom under fubjection. But he was now grown fo fecure in his good fortune, that he expected to find obedience everywhere. Lipon lis landing, the firft accounts he received were of Pompey's miferable end, who had been affafinated by orders of the treacherous king as foon as he went on fiore; and foon after one of the murderers came with his head and Ir murdered ring as a moft grateful prefent to the conqueror. But in $E_{\text {gypt. }}$
Cetiar turned away from it with horror, and fhortly after ordered a magnificent tomb to be built to his memory on the fpot where he was murdered; and a temp.e near the place, to Nemefis, who was the goddefs that punithed thofe that were cruel to men in adverfity.

It flould feem that the Egyptians by this time had fome hopes of breaking off all alliance with the Romans; which they confidered, as in fact it was, hat it feccious fubjection. They firft began to take offience at Colar's carrying the enfigns of Roman power tefore him as he entered the city. Photinus, the curach, alfo treated him with difrefpert, and even attempted his life. Ccelar, liowever, concealed his refentment till he had a 2 The force fufficient to punilh his treachery; and fending The EENF. privately for the legions which had been formerly en-rel wuth rolled fur Pompey's fervice, as being the ncarell to c.efar, Egypt, he in the mean time pretended to repofe an cintire coafidence in the king's minifer. However, he foon changed his manner when he found himielf in no danger from his attempts; and declared, that, as being a Roman conin, it was his duty to fettle the fucceffion to the Egypuian crown.

There were at that time trwo pretenders to the crovn of Egypt : Piolemy, the acknowledged king; and the celebrated Clcopatra his filter; whe, by the cuftom of the country, was alfo his wife, and, by their father's will, fhared jointly in the fucceffion. Howcver, not being contented with a bare participation of power, fhe aimed at governing alone; bnt being oppofed in her viervs by the Roman ienate, who confirmed ber brother's title to the crown, the was banithed into Sy:ia with A:finoe her younger fifter.

Cre'ar, liowever, gave ber netr hopes of obtainirg the kin dom, and fent both for lier and her brother to plend their caufe hefore him. Photinus, the young king's guardian, whio had long borne the molt inveteratc hatred as weil to Cafar as to Cleopatra, difuained tl.is propolal, and backed his refufal by fending an army
 bravely repulied the enemy for fome time; but finding him in thic city cf too great ex+ent to be defended by fo fmall Aiusandria, an army as he then had with him, he retired to the palace, which commanded the harbour, where he purpofed to make a fland. Achillas, who commanded the Egyptians, atlacked him there with great vigour, and fiil aimed at making himfelf mafter of the fleet that lay before the palace. Crefar, however, too well knew the importance

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Rome. importar.ce if thofe fhips in the bands of an eniengy and therefore b urnt them all in fpite of every effort to prevent is. He next pollefied limfelf of the ifle of Pharos, which was the key to the -1lexandrisn port, by which he was enabled to receive the fapplies fent him from all fides; and is: ih: fitiz? ion lie determined to withtand the united force cis'l the Eypptians.

In the mean dele, Cicopatm hiwing heard of the prefent turn in ber favour. Fiflved to depend rather on Cxfar's favour for gaibily the gowcriment than her own for as She had, in thict, alfembled an army in Suria to rippolt her c?aims; but now judged it the wifelt wny to reiy entirely on the decifion of her felielected judga. Lut no arts, as the jultly conceived, were fo ilikely to infaence Cie.ar, as the charms of her perfon. The difficulty was how $w$ get at Ciefar, as her eremies were in poffetion of all the avenues that led to the palace. For this purpole, the went on board a fmall velfel, and in the evening landed near the palace; where, being wrapped up in a coverlet, fhe was carried by one Aip-lod orns into the very chamber of Cofar. Her addrets at firft pleared him; but her careffee, which were carried beyond t'ic bounds of innocence, entirely brought him orer of fecond her claims.

Wible Ciejatra wis thus employed in fo:warding her osva views, her filer Arinoe was ailo flrenuouly engaced in the camp in prufuing a feparate interent. She latif fornd means, by the afintance of one Gancmede ber confidant, to make a large divifion in the Eqvptian army in har favour; and foon affor caufed Achillas to be mourdered, a. 1 Ganymede to take the command in 1 is tead, and to carry on the fiege with grenter vigour than before. Ganymede's p:incipal effort was by letting in the fer upon thofe canals which fapplied the paInce with frefh water; but this inconvenience Cetir remedied by digging a great number of wells. His next e.sleavour was to prevent the junction of Cæ'ar's $2 f^{\text {th }}$ legion, which he twice attempted in vain. He foon after mate hinfelf malter of a bridge which joined the iile of Phares to the continent, from which polt Cefar was tefored to diliodse him. In the heat of action, fome mariaers came and joined the combatants; but being feized with a panic, inftantly tled, and fpread a general tericr through the armv. All Ciefin's endearours to rally his forces were in vain, the confution was path remedr, and numbers were drowned or put to the froord in astempting to efcape; on which, fecing the irremedialie diforder of his troops, lie retized to a hip in o:der to get to the pelace that was juft oppofite. Ilowever, te was so fomer on buard than great crowds en:zved at the fame time with him; upon which, apprehenfive of the Mip's finting, he jumped into the fea, and fram 220 paces to the ficet that lay befure the palace.

The Alevandrions, finding their efforts to tithe the palace ineftectual, endenmured at lea!t to get their king cat of Coxar's power, as he had feized $u_{1}$ on his perfon in the begianing of their difj:t es. For this purpofe they made ufe of their cuftomary arts of difimulation, profeiling the utmof defire for peace, and on!y wanting the prelence of their lawful prince to give a fanction to the treaty. Cafar, who was fenfible of their perfidy, neverthelefs concealed his fufpicions, and gave them their king, as he was under no apprehenfons from the abilities of a boy. Picemy, however, the inftant he was
fet at liberty, intsad of promoting peace, made every effort to give viggour to hdililities.

I:a this manner Ciefar was henimed in for fome time: but he was at lait relieved from this mortifying fituatrelieved. tion by N.lithridates Pergamerius, one of his mont faithful pariz ans; who, coliceting a numen us àmy in Syria, marehed into Egypt, took the city of I'elutium, repulled the Egyptian army with lofs, and at latt, joining with Cielar, attacked their camp, and made a great flaughter of the E. oyptians. Pioleny himfelf, altempting to efcape on board a veffil that was failing down the river, was drowned by the flif's.finking; and Ciefar thus became mafter of all Egypt without any fusther oppofition. He therefore appointed, that Cleopatra, with her younger brother, who was then but an infant, thould jointly govern, according to the intent of their father's will; and drove out Arfinoe with Ganymede into bauillment.

Cufar now for a while feemed to rclax from the urual activity of his conduct, captivated with the charms of Clcopatra. Inflead of quitting Ezypt to go and quell the remains of Pompey's party, he abandoned himelf to his pleafures, paffing whole lighis in feafts with the young queen. He even refolved to attend her up the Nile into Ethiopia; but the brave veterans, who had long followed his fortune, boldly reprehended his corduzt, and refufed to be partners in to infamous an expedition. Thus, at length, reufed from his lethargy, he left Cleopatra, by whom he had a fon who was afterwards named Cafario, in order to oppole Pharnaces the king of Pontus, who had now made fome inroads unon the dominions of Rome. Here he was attended with the great fuccel's, as we have related under the atticle Poxtus ; and having fettled affairs in this part of the 214 empire, as well as time would permit, he embarked for Arrives in Italy, where he arrived fooner than his enemics could Italy, and expect, but not before his aplairs there abfolutely re-undertates quired his prefence. He had been, during his ablence, an exped;created confui for five years, dictator for one year, and tion into tribune of the people for lite. But Antonv, who in the Air: 2 maan time goverred in Fome for him, had filled the city with riot and debauchery; and many commotizns enfued, which nothing but the arrival of C.efer could ajppeafe. However, by his moder tion and humanity, be foon refored tranquillity to the city, fuarce making any dilinetion between thole of his oirn and the oppofite party. Thus haring, by gentle means, reflored his atrthority at home, he prepared to march into Africa, where Pomsey"s party had found time to rally under Scipio ard Caio, affited by Juba king of Maritania. Sut the vigour of his proceedings had like to have been retarded by a mutiny in his onn army. Thofe veteran legions, who had hithe to conquered all that came before them, began to murmur for not havi:gg receivel the rewards which they had expected for their palt fervices, and now infifted upon their difcharge. Howevor, Caflar found means to quell the matiny ; and them, according to his ufual diligence, landed with a fmall party in Africa, the reft of the army following foon after. After many movements and fkirmilies, he refolved at latt to come to a decifive battle. For this parpofe he invefted the city of Thapfus, fuppofing that Scipio would attempt its relief, which torned out according to his expectation. Scipio, joining with the young hing of Mauritania, advanced with his army, and encamping

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Rome. near Cæfar, they foon came to a general battle. Cæfar's fuccefs was as ufual ; the enemy received a complete and final overthrow, with little lofs on his fide. Defeats the partifans of Pompey. Juba, and Petreius lus general, killed each other in de[pair ; Scipio, attempting to efcape by fea into Spain, fell in among the enemy, and was flain; fo that, of all the generals of that undone party, Cato was now alone remaining.

This extraordinary man, having retired into Africa after the battle of Pharfalia, had led the wretched remains of that defeat through burning deferts and tracts infelted with ferpents of various malignity, and was now in the city of Utica, which he had been left to defend. Sill, however, in love with even the thow of Roman government, he had formed the principal citizens into a lenate, and conceived a refolution of holding out the town. He accordingly affembled his fenators upon this occafion, and exhorted them to ftand a fiege; but finding his admonitions ineffectual, he ftabbed himfelf with his fword *. Upon his death, the was in Africa being completed, Cæfar returned in triumph to Rome ; and, as if he had abridged all his former triumphs only to increafe the fplendor of this, the citizens were aftonifhed at the magnificence of the proceffion, and the number of the countries he had fubdued. It lafted four days: the firf was for Gaul, the fecend for Egypt, the third for his vietorics in Atia, and the fourth for that over Juba in Africa. To every one of his foldiers he gave a fium equivalent to about 1501 . of our money, double that fum to the centurions, and four times as much to the fuperior officers. The citizens alfo fhared his bounty; to every one of whom he diftributed to bufthels of corn, 10 pounds of oil, and a fum of money equal to about two pounds Sterling of ours. He, after this, entertained the people at about 20,000 tables, treated them with the combat of gladiators, and filled Rome with a concourfe of fpectators from every
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Honours
heaped up. on him at
Rome.
the firft operations of the two armies were fpent in fieges and fruitlefs attempts to furprite each other. At length Crefar, after taking many cities from the enemy, and purfuing young Pompey with unwearied perfeverance, compelled him to come to a battle upon the plains of Munda.

Rome.

After a moft obftinate engagement, Cafar gained a Becomes ${ }^{218}$ complete victory (lee Munda); ) and having now fub-mafter of dued all his encmies, he returned to Rome for the laft time to receive new dignities and honours, and to enjoy empire by an accumulation of all the great offices of the ftate. at Mundz. Still, however, he pretended to a moderation in the enjoyment of his power; he left the confuls to be named by the people; but as he poflefied all the authority of the office, it from this time began to fink into contempt. He enlarged the number of fenators alfo; but as he had previounly deftrosed their power, their new honcurs were but empty titles. He took care to pardon all who had been in arms againft him, but not till he had deprived them of the power of refiltance. He even fet up once more the fatues of Pompey; which, however, as Cicero oblerved, he only did to fecure his own. The reft of this extraordinary man's life was employed for the advantage of the ftate. He adorned the city with magnificent buildings; he rebuilt Carthage and Corinth, fending colonies to both cities; he undertook to level feveral mountains in Italy, to drain the Pontine marthes near Rome, and defigned to cut through the Ifthmus of Pe- ${ }_{210}$ loponnefus. Thus he fornied mighty projects and de-His vatt figns beyond the limits of the longelt life; but the great- defigris. elt of all was his intended expedition againt the Parthians, by which he defigned to revenge the death of Cralfus; then to pals through Hyrcania, and enter Scythia along the banks of the Calpian fea; from thence to open himfelf a way through the immeafurable foreits of Germany into Gaul, and fo return to Rome. Thele were the aims of ambition : but the jealouly of a few individuals put an end to them all.

The fenate, with an adulation which marked the degeneracy of the times, continued to load Cafar with frefh honours, and he continued with equal vanity to receive them. They called one of the months of the year after his name; they ftamped money with his image ; they ordered his fatue to be fet up in all the cities of the empire ; they inftituted public facrifices on his birthday; and talked, even his life-time, of enrolling him in the number of their gods. Antony, at one of their public feftivals, foolifhly ventured to offer him a diadem; but he put it back again, refufing it feveral times, and receiving at every refufal loud acclamations from the people. One day, when the fenate ordered him fome particular honours, he neglected to rife frum his feat ; and from that moment is laid to have been marked for deftruction. It began to be rumoured that he intended to make himfelf king; for though in fact he already was fo, the people, who had an utter averfion to the name, could not bear his affuming the title. Whether he reaily defigned $t$, affume that empty honour muft now for ever remain a fecret; but certain it is, that the unfufpecting opennefs of his conduct marked fomething like a confidence in the innocence of his intentions. When informed by thofe about him of the jealoufies of many perfons who envied his power, he was heard to fay, That he had rather die once by treafon, than to lise continually in the apprehenfion of it : and to con-

## $\mathrm{R} \mathrm{O} \quad \mathrm{M} \quad\left[\begin{array}{lll}\text { 175 }\end{array}\right] \quad \mathrm{R} \quad \mathrm{O} \quad \mathrm{M}$

Rome. vince the world how litele he had to apprebend from his enemies, he dibanded his company of Spanilh guards, which facilitated the enterprife againft his life.

A deep-laid confpiracy was formed againtl him, conspofed of no lefs than 60 fenators. At the head of this confpiracy was Brutus, whofe life Ciefar had pared after the battle of Pharfalia, and Caffius, who had been pardoned foon after, both pretors for the prefent year. Brutus made it his chief glory to have been defeended from that Brutas who firft gave liberty to Rome ; and from a defire of following his example, broke all the ties of private friendthip, and entefed into a confpiracy which was to deftruy his benefactor. Calfius, on the other hand, was impetuous and proud, and hated Cerfar's perfon ftill more than his caufe. He had often lought an opportunity of gratifying his revenge by aflillination, which took rile rather from private than public motives.

The confpirators, to give a colour of juftice to their proceedings, remitted the execution of this defign to the ides of March, the day on which it was reported that Cwfar was to be offered the crown. The augurs had foretold that this day would be fatal to him ; and the night preceding, he heard his wife Calphurnia lamenting in her fleep, and being awakened, fhe confefled to him that fhe dreamt of his being affafinated in her arins. Thele omens, in fome meafure, began to change his intentions of going to the fencte, as he had refolved, that day; but one of the confpirators coming in, prevailed upon him to keep his relolution, telling him of the reproach which would attend his faying at home till his srife had lucky dreams, and of the preparations that were made for his appearance. As he went along to the fenate, a flave, who haftened to him with information of the confpiracy, attempted to come near him, but could not for the crowd. Artemidorus, a Greek philofopher, who had difcovered the whole plot, delivered to him a memorial, containing the heads of his information; but Cæfar gave it, with other papers, to one of his fecretaries without reading, as was ufual in things of this nature. As foon as he had taken his place in the fenate, the confpirators came near him, under a pretence of faluting him; and Cimber, who was one of them, approached in a fuppliant polture, pretending to fue for his brother's pardon, who was banithed by his order. All the confpirators feconded him with great tendernefs; and Cimber, feeming to fue with ftill greater fubmifition, took hold of the bottom of his robe, hold-
pey's flatue, after receiving three-and-twer.ty wounds, in the 56 th year of his age, and 4 th of his reign.

As foon as the conffirators had difpatched Cuefar, ${ }^{222}$ they began to addrefs themilelves to the feriate, in order Gieat conto vindicate the motives of their enterprife, and to funon occacite them to join in procuring their country's freedoin ; his death. but all the fenators who were not accomplices fied with fuch precipitation, that the lives of fome of them were endangered in the throng. The people alfo being now alarmed, left their ufual occupations, and ran tumultuounly through the city; fome actuated by their fears, and ftill more by a defire of plunder. In this fate of confulion, the confpirators all retired to the capitol, and guarded its acceffes by a body of gladiators which Bru* tus had in pay. It was in vain they alleged they only ftruck for freedom, and that they killed a tyrant who vfurped the rights of mankind: the people, accuftomed to luxury and eafe, little regarded their profeffions, drcad. ing more the dangers of poverty than of fubjection.

The friends of the late dictator now began to find that this was the time for coming into greater power than before, and for fatisfying their ambition under the veil of promoting juftice. Of this number was Antony, whom we have already feen acting as a lieutenant under Cæfar. He was a man of moderate abilities and exceflive vices; ambitious of power, but fkilled in war, to which he had been trained from his youth. He was conful for this year ; and refolved, with Lepidus, who was fond of commotions like himfelf, to feize this opportunity of afluming the fovereign power. Lepidus, therefore, took poffeffion of the forum with a band of foldiers at his devotion; and Antony, being conful, was permitted to command them. Their firft ftep was to poffc fs themfelves of all Cæfar's papers and money; and the next to convene the fenate, in order to determine whether Cæfar had been a legal magiftrate or a tyrannical ufurper, and whether thofe who killed him merited rewards or punithments. There were many of thefe who had received their promotions from Cælar, and had The ${ }^{22}$ acquired large fortunes in confequence of his appoint-fpirators ments : to vote him an ufurper, therefore, would be to pa doned. endanger their property; and yet to vote him innocent, by the femight endanger the ftate. In this dilemma they feemed willing to reconcile extremes; wherefore they approved all the acts of Cæfar, and yet granted a general pardon to all the confpirators.

This decrce was very far from giving Antony fatisfaction, as it granted fecurity to a number of men who were the avowed enemics of tyranny, and who would be foremoft in oppofing his fchemes of reftoring abfolute power. As therefore the fenate had ratilied all Crefar's acts without dittinction, he formed a fcheme upon this of making him rule when dead as imperioufly as he had done when living. Being, as was faid, poffeffed of Cafar's books of accounts, he fo far gained upon his fecretary as to make him infert whatever he thought proper. By thefe means, great fums of money, u hich Cæfar never would have beftowed, were here diftributed among the people; and every man who was averfe to republican principles was here fure of finding a gratuily. He then demanded that Cafar's funcral obfequies Chould be performed; which the fenate now could not decently forbid, as they had never declared him a tyrant. Accordingly, the body was brought

## $\mathrm{H} O \mathrm{M}$ <br> forth in!o the forum with the utmon folemrity; and

Antony began lis opcrations upon the paffions of the people, by the prevailing motives of private intereft. He firlt read Ciclar's sill, in which he liad left Octavius, his filler's grandion, his heir, permitting him to take the name of Ccefar ; and three parts of his private fortune Brutus was to inherit in cafe of his death. The Ruman people were left the gardens which he had on the other fide the Tiber; and every citizen, in particuiar, was to receive 300 fenterces. This lait bequeil not a little contributed to increafe the people's affection for their late dictator ; they now began to confider Cæfar as a father, who, not fatisfed with doing them the greateft good while living, thought of benefiting them even after his death. As Antony continued reading, the multitude bergan to be moved, and fighs and lamentaions were heard from every quarter. Antony, feeing the audience twourable to his defigns, now began to addie's the aliembly in a more patheic ftrain : he prefented before them Ciefar"' blocdy robe, and, as he unfolded it, took care they Mould oiferve the number of llabs in it : he then difplayed an image, which to then appeared the bodv of Cæfir, all covered with wounds. The people could nots no longer contain their indignation; they unanimoully cried out for revenge; all the old foldiers who had fuught under him, burnt, with his body, thsir coronets, and other marks of conqueft with which he had honoured thera. A great namber of the firf matrons in the city threw in their ornaments alfo; till at length, rage fucceeding to forrox, the multitude ran with Haming brands from the pile to fet fire to the confpirators boufes. In this rage of refentment, meeting with one Cinna, whom they miftook for another of the fame name who was in the confpiracy, they tore him in pieces. The confpirators themfelves, horrever, being well guarded, repulifed the multitude wib no great trouble ; but percciving the rage of the people, they thought it fafelt to retire from the city. Divine honours were then granted him; and an altar was erected on the place where his body was burnt, where afterwards was erested a column inferibod, To the forker of his country.

In the mean time Antony, who had excited this flame, reiolved to make the beft of the occafion. Having gained the people by his zeal in Cafar's caufe, he next endcavoured to bring over the fenate, by a feeming concern fur the freedom of the tlate. He therefore propofed to recal Sextus, Pompey's only remaining fon, who had concealed himfelf in Spain fince the death of his father: and to grant him the command of all the fleets of the empire. His next ftep to their confidence, was the quelling a fedition of the people, who rofe to revenge the death of Cafar, and putting their leader Amathus to death, who pretended to be the fon of Marius. He after this pretended to dread the refentment of the multitude, and demanded a guard for the fecurity of his perfon. The fenate $g$ ranted his requelt ; and, under this pretext, he drew round him a body of 6000 refolute men, attached to his interelt, and ready to execute his commands. Thus he continued every day making rapid flrides to abfolute power ; all the autlority of government was lodged in liis hands and thore of his two brothers alone, who thared among them the coofular, tribunitian, and prextorian rewer. Hic vuws to revenge Cafar's death
feemed either polponed, or totally forgotten; and his only aim feemed to be to confin himfelf in that fower which he had thus artfully acquired. But an obffacle to his ambition fecmed to arife from a quarter on which he lealt expected it. This was from Oaavius or Oc-Is onpofed
 grand-nephew and adopted fon of Cælar, and was atauus. Apellonia when his kinfinan was flain. He was then about 18 years old, and had been fent to that city to improve limfelf in the fudy of Grecian literature. Upon the news of Cxfar's death, notwithfanding the earnelt diffiafions of all his friends, he rcfolved to return to Rome, to claim the inheritance, and revenge the death of his uncle. From the former profeffions of Antony, he expected to find him a warm affiltant to his aims; and he doubted not, by his concurrence, to take fignal vengeance on all who had a hand in the con. fpiracy. However, he was greatly diappointed. Antony, whofe projects were all to aggrandize himfelf, gave him but a very cold reception, and, infead of granting him the fortune left him by the will, delayed the payment of it upon various pretences, hoping to check his ambition by limiting his circumfances. But Octavianus, initead of abating his clainss, even fold lis own patrimonial eflate, to pay fuch legacies as Cafar had left, and particularly that to the people. By thefe means he gained a degree of popularity, which his enemies vainly laboured to diminifh, and which in fact he had many other methods to procure. His converfátion was elegant and infinuating, his face comely and graceful, and his afiection to the late dictator fo fincere, that every perfon was charmed either with his piety or his addrefs. But what added fill more to his intereft was the name of Cæfar, which he had affumed, and, in confequence of which, the former followers of his uncle now flocked in great numbers to him. All thefe he managed with fuch art, that Antony now begen to conceive a violent jealoufy for the talents of lis voung opponent, and fecretly laboured to counterast all his defigns. In fact, he did not want reafon; for the army near Rome, that had long wifhed to fee the confpirators punified, began to turn from him to his rival, whom they faw more fincerely bent on gratitying their defires. Antony having procured alfo the government of Hither Gaul from the people, two of his legions that he had brought home from his former government of Macedonia, went over to Oftavianus, notvithfanding all his remonfrances to detain them. This produced, as ufual, interviews, complaints, recriminations, and pretended reconciliations, which only tended to widen the difference; fo that, at length, both fides prepared for war. Thus the ftate was divided into three diftinet factions; that of Oftavianus, who aimed at procuring $\mathrm{C}_{\text {}}$ \{ar's inheritance, and revenging his death; that of Antony, whofe fole view was to obtain abfolute power; and that of the confpirators, who endeavoured to reflore the fenate to its former authority.

Antony being raifed by the people to hls new government of Cifalpine Gaul, contrary to the inclinations of the fenate, refolved to enter upon his province immediately, and oppofe Brutus, who commanded a frall body of troops there, while his army was yet entire. He accordingly left Rome, and marching thither, commanded Brutus to depart. Brutus, being

## $\begin{array}{lll}\mathrm{H} & \mathrm{O} & \mathrm{M}\end{array}$

unable is sofe him，retired with hiv lave ；but being puwien ity Antony，he was at litt beliened in the city of Musina，of which he fent word to the fenate．

In the mean while，Cavionus，who by this time had railed a body of 10,000 men，returned to Rome； and being reolved，beiore he altempted to take ven－ －geance on the confpirators，if poffible to dimi ith the puwer of Antony，began by bringing over the fenate to lecond his defigns．In this he lucceeded by the credit of Cicero，who had lon hated Antuny be atile he thughtit lim the enemy of the ltate．Accordi＂${ }^{-}$ ly，by means of hi，elorquence，a decree was paffed，or－ dering Antony to raile the licge of Mu ita，to eva－ cuate Cifalpine Gaul，and to arrait the further orcers of the fenate upon the banks of the Rubicon．An－ tony treated the order with contempt；and invicad of obeying，began to fhow his difpleafure at being hi－ therto fo fubmilfive．Nothing now therefore remained for the fenate but to declare him an enemy to the itate， and to fend OEtavianus，with the army he had raifed，to curb his infoence．The latter was very ready to offir his army for this expedition，in order to revenge his own private injuies，before he undertook thute or the public．The two confuls，Hirtius and Panfa，joincd all their forces；and thus combined，they marehed at the head of a numerous army，againf Antony，into Cifalpine Gaul．After one or two ineffectual conflicts， both armies came to a general engagement ；in which Antony was defeated，and compelled to fly to Lepi－ dus，wbo commanded a body of forces in Further Gatl．This victory，however，which promifed the fe－ nate fo mucla fuccels，produced effects very different from their expectations．The two confuls were mor－ tally wounded ；but Panfa，previous to his death，called Otavianus to his bed－fide，and advifed him to join with Antony，telling him，that the fenate only cefired to de－ prefs both，by oppofing them to each other．The ？rice of the dying conful funk deep on bis fpirits；fo that from that time he only fought a pretext to break $\therefore$ ith them．Their giving the command of a party of fiss army to Decimus Brutus，and their denying him a triumph foon afier，ferved to alienate his mind entire－ ly from the lenate，and made him refolve to join Anto－ ny and Lepidus．He was willing，however，to try the ferate thorous hly，before he came to an open rupture ； wherefore he fent to demand the confullhip，which was refufed him．He then thought himfelf ubliged to keep no meafures with that affembly，but privately fent to found the inclinations of Antony and Lepidus，concern－ ing a junction of forces，and found them as eaper to af． fift as the fenate was to oppofe him．Antony was，in fact，the general of both armies，and Levidus was only ：ominally fo，for his foldiers refufed to obey him upon the annroach of the former．But being affured of the affitance of Oftavianus upon their arrival in It：－ ly，they foon crofled the $A$＇ps with an army of 17 le－ gions，breathing revenge againft all who had opzofed their defigns．

The fenate now be：an，too late，to perceive their error in difobliging OEtavianus；and therefore gave him the confulthip which they had fo lately refufed，and，to yrevent his joining with Antony，fla＇tered him with new honours，giving him a power fuperior to all law． The firt ufe Oetavianus made of lis new authonity was

 Antony and Lepidis．

The mecting of thef three ufurpers of thecir coun－Thes ${ }^{2}$ ．in a try＇s frecdom was ue．r Mutina，upon a littl and otrec incel， the river Panaras．＇I heir mutual lufpiciors were tle andidnace cavfe of their meeting in this place．Lepidus firtt en．＇wish are terud，and，finding all things lafe，made the fignal ior dus． the other（wo to approct）．Oetaviaus tiegan the con－ ference，ty thanking Anony for his zeal in putting Decimus Bru us to death；who，heing abandoned by his army，was taken as lee was doficning to cicape in－ to Alacedonia，and beheaded ty Arit ny＇s command． Their coneerence lafted for three days；and the refult of it was，that the fupreme authority fletild be lidged Tlic．i．d in their honds，under the title of the triumoirate，for ${ }^{\text {tr }}$ ．．．．．． the face of five years；that Antony hould have ${ }^{\text {arte }}$ Gaul；Lepidus，Spain；and Oc aviunus，Alaca，and the Mediterrane $n$ illands．As for Italy，and the eaft－ ern provinces，they were lo remain in conmon，witil their ganerul enemy was entirely fubdued．But the lait article of their union was a dreadrul one．It was agreed that all their enemies fhould be deftroyed；of $\quad 2: 0$ ubich each prefented a litt．In thefe were compriled Crinti nut only the enemies，but the friends of the thiumvi－of the 1 － rate，fince the partifans of the one were often found wime among the oppofers of the others．Thus Lepidus gave up his brother Paulus to the vengernice of his col－ league；Antony permitted th：e proferip，tion of his uncie Lucius；and Oetavianus delivered up the great Cicero． The moft facred rights of nature were volated； 300 fenators，and above 2000 knights，were inciuded in this terrible profcription；their fortunes were confil－ cated，and their murdeters enriched with the fpoil． Rome foon felt the effects of this infernal ution，a．d the horrid cruelties of MIarius and Sylla were renewed As many as could efcape the cruelty of the triumsins， fled thither into Macedoria to Bretus，or found refuec with young Pompey，who was now in Sicily，and co－ vered the Mediterranenn with his namerous navy． Their cruelties were not aimed at the men alone；but the folter fex were in danger of being marked as ob－ jects either of avarice or relentment．They made out a lift of 1400 momen of the beft quality，and the richeft in the city，who were ordered to give in an ac－ count of their fortunes，to be taved in profortion．Bats this feemed fo unpopular a meature，and was fo fimiy oppofed by Horteafia，wio fpote ag inft it，tha，in－ flead of I 4CO women，they were con：ent to tax only $4^{-c}$ ．Honever，they mide up the deficiency，by ex－ tending the tax upon men；near 100,000 ，as $w .11 \mathrm{ci}$ tizeris as firangers，were compelled to furnifh fupplies to the fulaerfion of their contry＇s frecdom．A．la i， hoth the avarice and v ngeance of the triumviri cem ed fully fatisices，and they went into the fenate to de－ c＇are that the profeription was at an end ；and thus ha－ ving deluzed ti e city with blood，Octavianus and dir－ tony，leaving Lepidus to defend Rome in their ab－ fence，marched with their army to onpofic the confpira－ tors，who were now at the head of a formidable a：my in Afia．

Brutus and Caflius，the principal of thefe，upon tle They－ death of Cecfar，being compelled to quit Fome，went uppoical 1 ， into Greece，where they perfuaded the Roman Rudents Butus and at Athers to declare in the caufe of freedom；then conue．

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Rome. parting, the former raifed a powerful army in Nacedonia and the adjacent countries, while the latter went into Syria, wherc he foon became mafter of 12 legions, and reduced his opponent Dolabella to fuch fraits as to kill himfelf. Poth armies foon after joming at Smyma, the fight of fuch a formidable forse began to revive the declining fipirits of the party, and to re-unite the two generals itill more clofely, between whom there had been fome time before a flight mifunderflanding. In fhort, having quited Italy like diffrefs. ed exiles, without having one fingle foldier or one town that owned their command, they now found themfelves at the head of a flourifhing army, furnifhed with all the neceflaries for carrying on the war, and in a condition to fupport a conteft where the empire of the world depended on the event. This fuccefs in raifing levies was entirely owing to the juftice, moderation, and great humanity of Brutus, who in every inftance feemed fudious of the happinefs of his country.

It was in this flourilling ftate of their affairs that the confpirators had formed a refolution of going againit Cleopatra, who, on her fide, had made great prepara. tions to affift their opponents. However, they were diverted from this purpofe by an information that Octavianus and Antony were now upon their march, with 40 legions to oppofe them. Brutus now, therefore, moved to have their army pafs over into Greece and Macedonia, and there meet the enemy ; but Caffius fo far prevailed as to have the Rhodians and Lycians firt reduced, who had refufed their ufual contribution. This expedition was immediately put in execution, and extraordinary contributions were raifed by that means, the Rhodians having farce any thing left but their

Rbodes.
lives*. The Lycians fuffered fill more feverely; for having fhut themfelves up in the city of Xanthus, they deended the place againft Brutus with fuch fury, that neither his art nor intrcaties could prevail upon them to furrender. At length, the town being fet on fire, by tieir attempting to burn the works of the Romans, Brutus, inftead of laying hold on this opportunity to florm the place, made every effort to preferve it, intreating his foldiers to try all means of extinguifhing the fire: but the defperate phrenzy of the citizens was not to be mollified. Far from thinking themfelves obliged to their generous enemy for the efforts which were made to fave them, they refolved to perifl in the ffames. Wherefore, inftead of extinguihing, they did all in their power to augment the fire, by throwing in wood, dry reeds, and all kinds of fuel. Nothing could exceed the diflrefs of Brutus upon feeing the townfmen thus refolutely bent on deffroying thenilelves: he rode about the fortifications, fitetching out his hands to the Xanthians, and conjuring them to have pity on themfelves and their city; bat, infenfible to his expoftulations, they rufhed into the flames with defperate obftinacy, and the whole foon became an heap of undiftinguifhable ruin. At this harrid frectacle, Brutus offered a reward to every foldier who would bring him a Lycian alive. The number of thofe whom it was pofible to fave from their own fury amounted to no more than 150.

Brutus and Caffus met once more at Sardis, where, after the ufual ceremonies were pafled belyeen them, they refolved to have a private conference together,
when, after much altercation, they were at laft perfeetly reconciled. After which, night coming on, Caffius invited Brutus and his friends to an entertainment. Upon retiring home it was, that Brutus, as Plutarch tells the flory, faw a fpectre in his tent. It was in Brutusfes the dead of the night, when the whole camp was per-a a fectre. fectly quiet, that Brutus was employed in reading by a lamp that was juft expising. On a fudden he thought he leard a noife as if fomebody entered; and looking towards the door, he perceived it open. A gigantic figure, with a frightful afpect, flood before him, and continued to gaze upon him with filent leverity. At laft Brutus had courage to fpeak to it: "Art thou a dxemon or a mortal man ? and why comeft thou to me ?" ". Brutus," replied the phantom, "I am thy evil genius, thou thalt fee me again at Philippi." "Well then," anfwered Brutus, without being difcompofed, "we fhall meet again." Upon which the phantom vanifhed; and Brutus calling to his fervants, afked if they had feen any thing; to which replying in the negative, he again refumed his fludies. But as he was ilruck with io ftrange an occurrence, he mentioned it the next day to Caffiuc, who, being an Epicurean, afcribed it to the effect of imagination too much exercifed by vigilance and anxiety. Brutus appeared fatisfied with this folution of his late terrors; and, as Antony and Ottavianus were now advanced into Macedonia, they foon after paffed over into Thrace, and advanced to the city of Philippi, near which the forces of the triumvirs were pofted.

A battle foon enfued; which the republicans were defeated, and Caffius killed, as is related in the article Philippi.

The firft care of Brutus, when he became the fole The re- ${ }^{233}$ general, was to affemble the difperfed troops of Caf-publicans fius, and animate them with frenh hopes of vietory. As defeated. they had loft all they poffefled by the plundering of their camp, he promifed them 2000 denarii each man to make up their leffes. This once more infpired them with new ardour; they admired the liberality of their general, and with loud fhouts proclaimed his former intrepidity. Still, however, he had not coufideuce fufficient to face the adverfary, who offered him battle the enfuing day. His aim was to flarve his enemies, who were in extreme want of provifions, their flect having been lately defeated. But his fingle opinion was overruled by the reft of his army, who now grew every day more confident of their ftrength, and more arrogant to their new general. He was, therefore, at laft, after a refpite of 20 days, obliged to comply with their folicitations to try the fate of the battle. Both armies being drawn out, they remained a long while oppofite to each other without offering to engage. It is faid that he himfelf had loft much of his natural ardour by having again feen the fpectre the night preceding: however, he encouraged his men as much as poffible, and gave the fignal for bsttle within three hours. of funfet. Fortune again declared againft him ; and ${ }^{234}$ the two triumriri exprefsly ordered by no means to fuf-defeated a fer the general to efcape, for fear he fhouhd renew the lecond war. Thus the whole body of the enemy feemed chicf- ${ }^{\text {time. }}$ ly intent on Brutus alone, and his capture feemed inevitable. In this deplorable exrgence, Lucilius bis friend refolved, by his own death, to effect the general's delivery. Upon perceiving a body of Thracian borfe clofely

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 clofely purfuing Brutus, and juft upon the point of taking him, he boldly threw himfelf in their way, telling them that he was Brutus. The Thracians, overjoyed with fo great a prize, immediately difpatched fome of their companions, with the news of their fucce's, to the army. Upon which, the ardour of the purfuit now abating, Antuny marched out to meet his priloner; fome filently deploring the fate of fo virtuous a man; others reproaching that mean defire of life for which he conlented to undergo captivity. Antony now feeing the 'hracians approach, began to prepare himfelf for the interview ; but the faithful Lucilius, advancing with a cheerful air, owned the deceit that he had put upon him: on which the triumvir, ftruck with fo much fidelity, pardoned him upon the fpot ; and from that time forward loaded him with benefits, and honoured him with his friendftip.In the mean time Brutus, with a fmall number of friends, paffed over a rivulet, and, night coming on, fat dowa under a rock which concealed him from the purfuit of the encmy. After taking breath for a little time, he fent out one Statilius to give him fome information of thofe that remained; but he never returned, being killed by a party of the enemy's horfe. Brutus judging very rightly of his fate, now refolved to die likewife, and fooke to thole who food round him to lend him their lalt fad affiftance. None of them, however, would render him fo melancholy a piece of-fervice. At laft one Strato, averting his head, prefented the froord's point to Brutus; who threw himfelf upon it, and immediately expired.

From the moment of Brutus's death the triumviri began to act as fovereigns, and to divide the Roman dominions between them, as theirs by right of conqueft. However, though there were apparently three who thus participated all the power, yet, in fact, only two were actually poffeffed of it ; fince Lepidus was at firft admitted merely to curb the mutual jealouly of Antony and Octavianus, and was pofleffed neither of intereft in the army nor authority among the people. Their firt care was to punifh thofe whom they had formerly marked for vengeance. The head of Brutus was fent to Rome to be thrown at the foot of Crear's ftatue. His áhes, however, were fent to his wife Portia, Cato's daughter, who afterwards killed herfelf by fwallowing burning coals. It is obferved, that of all thofe who had a hand in the death of Cefar, not one died a natural death.

The power of the triumviri being thus eftablifhed upon the ruins of the commonwealth, Antony went into Greece, and fpent fome time at Athens, converfing among the philofophers, and affifting at their difputes in nerfon. From thence he paffed over into Alia, where all the monarch ${ }_{2}$ of the ealt, who acknowledged the Roman power, came to pay hirm their obedience. In this manner he proceeded from kingdom to kingdom, attended by a crowd of fovereigns, exacting contributions, diftributing favours, and giving away crowns with capricious infolence. He prefented the kingdom of Cappadocia to Syfenes, in prejudice of Ariarathes, only becaule he found pleafure in the beautv of Glaphyra, the mother of the former. He fettled Herod in the kinegdom of Judea, and fupported him againft every oppofer. But among all the forercigns of the caft sto fhared his fa-
vours, none had fo largé a part as Cleopatra, t'le celebrated queen of Egypt.

It happened that Serapion, her governor in the ifland of Cyprus, had formerly furnithed fome Gicecur to the conlpiraturs; and it was thought proper tiat the fhoold anliver for his conduct on that occafon. Accordingly, having received orders from Antony to conse and clear herfelf of this imputation of infidelity, the readily complied, equally confcious of the goodnefs of her caufe and the power of her beauty. She had already experienced Has an in the force of her charms upon Catar and Pompey's eldeft tere ew fon ; and the addition of a few years finec that time haf with Cleonot impaired their luttre. Antony was now in Tarfus, a ratra. city of Cilicia, when Cleopatra refolved to attend bis court in perfon. She failed down the river Cyduus, at the mouth of which the city food, with the moll fimptuous pageantry. Her galley was covered with gold; the fails were of purple, large, and floating in the wind. The oars of filver kept tune to the found of flutes and cymbals. She herfelf lay reclined on a couch fpangled with fars of gold, and with fuch ormaments as pocts and painters had ufually afcribed to Venus. On each fide were boys like cupids, who tanned her by turns; while the moft beautiful nymphs, dreff:d like Nereids and Graces, were placed at proper diftances atound her. Upon the banks of the river were kept burni $g$ the molt exquifite perfumes, while an infuite number of people gazed upon the fight. Antony was captivated with her beauty; and, leaving all his bufinefs to fatisfy his paffion, fhortly afiar followed her into Esypt.

While he thus remained idle, Octavianu, who took upon him to lead back the veteran troops and fettle them in Italy, was affiduoufly employed in providing for their fubfiftence. He had promifed them lands at home, as a recompenfe for their paff fervices; but thcy could not receive new grants, without turning out the former inhabitants. In confequence of this, multitudes of women, with children in their arms, wh fe tender years and innocence excited univerfal compaffion, daily filled the temples and tbe ftreets with their diftreffes. Numbers of hufbandmen and thepherds came to deprecate the conqueror's intention, or to obtain an habitation in fome other part of the world. Among ft this number was Virgit the poet, who in an humble manner begged permiffion to retain his patrimonial farm: Virgil obtained his requelt; but the reft of his countrymen, of Mantua and Cremona, were turned out without mercy.
 the infolent foldiers plundered at will; while Sextus nifnerd Pompey, being mafter of the fea, cut off all forcign by the Rocommunication, and prevented the people's receivitg mans. their ufual fupplies of corn. To thefe nifichiefs were added the commencement of another civil war. Fulvia, the wife of Antony, whu had been left behind himat Rome, had felt for forme time all the rage of jealouly, and re'olved to try every method of bringing back her hufband from the arms of Cleopatra. She confidure! a breach with Octevianus as the only pr bable means of roufing him from his lethargyं ; and accordingly, with the affitance of Lucius her hro her-i: lars, who was then conful, and entirely devoted to her intere?, fhe hegar to fows the feeds of diffenfion. The pretevt w. ., that Antony fhould have a thare in the diftribution of

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lands as well as Oftavianus. ©his produced .ome negociptions wetween them; OZavianus offered to make the veterans themllues umpires in the difpute. Lucius refufed to acģuitice ; and being at the he of of more than fix lecions, molly compufed of fuch as mad been \&1. poffefied of the ir lands, he refolved to compel CitaviaTHu io accept of whatever terms he flowld officr. This a nesy war was excited detween Octaviamus and Antony; or, at leall, the genemals of the latter affumed the fanction of his name. Octavianus, however, pro"ed vietorious: Lucius was hemm d in between two armics, ad coaftrained to re reat to Perulia, a city of Eiruria, where he was clofely befieged by the optofite party. Me made many de.perate fallies, and Fusia eid all in her power to relieve him, but without fuccefs. He was at latt, therefore, reduced to fuch extremity by famine, that he came out in perfon and delivered himfelf up to the mercy of the conqueror. Octavianus received him very honourably, and generoully pardoned him and all his followers. Thus having concluded the war in a few monthr, he returned in triumph to Rome.

Anto y, who, during this interval, was revelling in all the ftudied luxtries procured him by lis infidious miftrefs, lanving heard of his brothen's overihrow, and his wie's being compelled to leave Italy, was ruiulved to ce pofe Oftevianus without delay. He accordingly - ilut at the head of a corfiderable ficet frum Ales2.) Iria to Tyre, fiom thence to Cyprus and Rhodes, and l:no an inier iew with Fuln his wife at Athers. He much blamed her for occafionitg the late diforders, teftified the urmoft con tompt for lier perfor, and, leaving her upon hor death-bed ai Si-yom, haftened into Italy to ficbt Octavianus. They both maet at Brundufium ; and it was now thought that the flames of a civil war were going to blaze out cnce more. The forces of Antony were numerous, Sut moflly newly raifed; however, he was afften sy Sextus Ponspeits, who in thefe oppofitions of interefs was datily coming into power. Octavianus was at the head of thoie veterans who had alw'ays been irrelitible, but who feemed no way difpofed to fight againft Antony their former general. A negociation was tl:crefore propofed; and a reconciliation was effected. All offences and affronts were mutually forgiven; and to cement the
union, a marriage was concluded between Antony and Otavia, the fifter of Otavianus. A new divifion of the Roman empire was made between them ; Octavianus was to have the command of the weft, Antony of the eaft, while Lepidus was obliged to content himfelf with the provinces in Africa. As for Sextus Pompeius, he was permitted to retain all the iflands he had already poffeffed, together with Peloponnefus: he was alfo granted the privilege of demanding the confulhip in his abfence, and of difcharging that office by any of his frie ds. It was likewife ftipulated to leave the fea eper, and pay the people what corn was due out of Sicily. Thus a general peace was concluded, to the gireat fati faction of the people, who now expected a ceflation from all their calamities.

This calm leemed to continue for fome time: Antony led his forces againft the Parthians, over whom his lieute:nant, Ventidius, had gained great advantages. Octavianus drew the greateft part of his army into Gaul, where there wese fome diffurbances; and Porm-
pey went to fellite his newly ceded province to his inicreft. It was on this quarter that frefh motives were given for renewing the war. Antooy, who was obli$\xi$ d by treaty to quil Peloponnefus, refufed to evacuate it till Pompey bud fatisized him for fuch debts as were due to him fiom the inimbiants. This Pompey woud by no mea:is conlpy with ; but immediately fitted out a new fleet, and renewed his former enterprites, by cutling off fuch cora and provilions as were conagiaed to I aly. 'Thus the grictances of the poor were agai: renewed; and the people besan to complain, that intesd of three tyranis they were now oppreffed by four.

In this exigence, Octavianus, who had long meditated the beit means of diminithing the number, reolved to begin by getting rid of Pompey, who kept the flate in continual alarms. He was mafter of two lieets; one of which he had caufed to be built at Ravenna; and another which Menodorus, who revolted fiom Pompey, brought to his aid, His firt attempt was to invade Sicily; but being overpowered in his pahtiou t Pompey, and afterwards thatiered in a flerm, he wasobliged to defer his defigus to the enfuing year. During this interval be was reinforced by a tleet of 120 flips, given him by Antony, with which he refolved once more to invade Sicily on three feveral quatersBut fortune feenied itill determined to oppofe him. He was a fecond time diabled and fhattered by a form : which fo raifed the vanity of Pompey, that he began to tiyle himfelf the for of A'piune. However, Oclivianus was not to be intimidated by any dilgraces ; fur having fhoitly refit' -d his nary, and reciuited his tores . he gave the command of both to Agripps, his faitiful friend and atiociate in war. Agrippa proved hi: felf sorthy of the trult repofed in Fim: he began his operations by a viftory over Pompey ; and, though lee was fhortly after worted himfelf, he foon after gave his advetlary a compliz and final overtlarow. Thus undone, Pompey refolved to fy to Antony, from whom he expectei refugc, as lie had formerly obliged that triumvir by giving protection to his mother. Ilowcver, he tried once more, at the head of a finail budy of men, to make himfelf independent, and cren furprifed Antony's officers who had been fent to accert of his fubmiflions. Neverthelefs, he was at lat Nuandoned by Sestu ${ }^{240}$ his foldiers, and delivered up to Titus, Antony's lieute- Pomprius nant, who fhortly after caufed him to be flain.

The death of this general remored one very powerful obftacle to the ambition of Octavianus, and he refolved to take the earlieft opportunity to get rid of the reft of his alfuciates. An offence was foon fummithed by Lepidus, that ferved as a fifficient pretext for depriving him of his thare in the triumvirate. being now at the head of 22 legions, with a frang body of cavalry, he idly fuppofed that his prefent power was more than an equivalent to the popularity of Oe vianus. He therefore refolved upon adding Sicily, where l:e then was, to his province ; pretending a right, as having firft invaded it. His colleague fent to expoliplate upors thefe proceedings ; but Lepidus Gercely replied, ' that he was determined to have his fhare in the adminithation, and would no longer fubmit to let one alone poffefs all the authority.? Octavianus was previoully informed of the difpofition of Lepidus's foldiers; for he had, by his fecret intrigues and largefles, entirely attacked them to himself. Whereforc, without further delay

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caufe, which the fened willing to fupprefs. Thefe artifices, te jether wath the ceaticiels flattery and importunity of her creatures, prevailed to much upon Aroary's weaknef, that he commanded Ottavia to return home withoat leeing her, and at tuched himielf itill more clolely to Cleopatra than bafe e. His ridiculous pallion nuw began to have no bourds. He refolved to own her for lis wife, and entirely to repudiate Ottavia. $\mathrm{He}^{\circ}$ ) worce accordingly affembled the people of Alevantrie in the public theatre, where was railed an alcove of filver, un-1 m. der which were niaced two thrones of gold, one forme of himfelf and the other for Cleopaira. There he feated himeif, dreli-d like Bicchus, while Cleopatra fat befide him cioned in the ornaments and attributes of h , s , the priuripal detity of the Egyprians. On that occaion be declared her queen of alf the coantries which he hal airendy beftowed upon her; while he affociated Citiario, her ton by Calar, as her partner in the goverament. To the two children which he h.d by be: limell he gave tiac title of ling of kingr, with ve.j extenfive dominto is; and, to crown his ablirdities, he fent a rainute ascount of his proceraligs to the two confals at Rome. It was now neceflery to act up t niv imagin:ry dignity; new luxuries and pageantion were nuw therefore fiudied, and new marks of profution found out: not leis than 65,002 . of our money were lavillied upon one fingle entertainment ; it is faid, upon this occafion, that Cieopatra diliolved a pearl of great value in vinegar, and drank it off. But we are told of one circumitance that might well reprefs their delights, and teach mankind to relifh the beverage of virtue, horsever fimple, above their greatelt luxuries. He was fufpicious of being poiioned in every meal ; lie feared Cleopatra, whom he fo much loved, and would eat nothing without having it previoufly tafted by one of his attendants.

In the mean time Oefavianus had now a fufficient na ${ }^{2+w}$ nus pretext for declaring war; and informed the fenate of ret wes to his intentions. However, he deferred the execution of make war his defign for a white, being then emploved in quelling an infurrection of the Illyrians. The following year was chierly taken up in preparations againft Artony, who, perceiving his defign, remonftraicd to the fenate, that he had many caules of complaint againf his coileague, who had fized upon Sicily without ofering him a ithare ; alleginy that he had allo difpoffeffed Lenidus, and kept to himfeif the province he had commanded; and that he had divided all Italy among his own foldiers, leaving nothing to recompenfe thofe in Afia. To this complaint Otavianus was contented to make a fa:caltic anfwer ; implying, that it was abfurd to complain of his dittribution of a few trifing diltricts in Italy, when Antony having conquered Parthia, he might now: reward his foldiers with cilies and provinces. The farcafm unon Antony's misfortunes in Parthia fo provoked him, that he ordered Canidius, who commanded his army, to march without intermiffion into Europe; whilie he and Cleopatra frillowed to Samos, in order to prepare for carrying on the war with vigour. When arived there, it was ridiculous enough to behold the odd mix'ure of preparatio: s for pleafuse and for war. On one fide all the ki s and princes fron. Europe to the Euxine fea lad orders to fend bim thither fupplies both of men, provifions and arms; ou the other lide. all the comedians, donecrs, bulbobis, and muficians of

Grece.

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Rome. Grecee, were ordered to attend him. Thus, frequently, when a fhip was thought to arrive laden with foldiers, arms, and ammunition, it was found only filled with players and theatrical machinery. When news was expected of the approach of an army, meffengers only arrived with tidings of a frefh quantity of veniton. The kings who attended him endeavoured to gain his favour more by their entertainments than their warlike preparations; the provinces ftrove rather to pleafe him by facrificing to his divinity, than oy their alacrity in his defence; fo that tome were heard to fay, "What rejoicings would not this man make for a victory, when he thus triumphs at the eve of a dangerous war !" In fhort, his beft friends now began to torfake his interefts.

His delay at Samos, and afterwards at Athens, wherc he carried Cleopatra to receive new honours, was extremely favourable to the arms of Octavianus. This general was at firt fcarcely in a difpofition to oppofe him, had he gone into Italy; but he foon found time to put hinfelf in a condition for carrying on the war, and flortly after declared it againft him in form. All Antony's followers were invited over to join him, with great promifes of rewards : but they were not declared enemies, partly to prevent their growing defperate, and partly to give a fhow of moderation to his own party. At length both found themfelves in readinefs to begin the war, and their armies were anfwerable to the empire they contended for. The one was followed by all the forces of the eaft; the other drew all the ftrength of the weft to fupport bis pretenfions. Antony's force compofed a body of 100,000 foot and 12,000 horfe; while his fleet amounted to 500 thips of war. 'The army of Octavianus muftered but 80,000 foot, but equalled his adverfary's in the number of cavalry; bis fleet was but half as numerous as Antony's; however, his fhips were better built, and manned with better foldiers.

The great decifive engagement, which was a naval one, was fought near Actium, a city of Epirus, at the entrance of the gulf of Ambracia. Antony ranged his thips before the mouth of the gulf; and Octavianus drew up his fleet in oppofition. Neither general affumed any fixed ftation to command in ; but went about from Ghip to thip wherever his prefence was neceffary. In the mean time, the two land armies, on oppofite fides of the gulf, were drawn up, only as fpectators of the engagement; and encouraged the fleets by their thouts to engage. The battle began on both fides with great ardour, and after a manner not practifed upon former oceafions. The prows of their veffels were armed with brazen points; and with thefe they drove furiounly againft each other. In this confliet the fhips of Antony came with greater force, but thofe of Octavianus avoided the thock with greater dexterity. On Antony's fide, the fterns of the thips were railed in form of a tower; from whence they threw arrows from machines for that purpofe. Thofe of Octavianus made ufe of long poles hooked with iron, and fire-pots. They fought in this manner for fome time with equal animofity; nor was there any advantage en either fide, except a fmall appearance of diforder in the centre of Antony's fleet. But all of a fudden Cleopstra determined the fortune of the day. She was feen flying from the engagement attended by 60 fail ; flruck, per-
haps, with the terrors natural to her fex: but what in-
Rome. creafed the general amazement was, to behold Antony himfelf following foon after, and leaving his fleet at the mercy of the conquerors. The engagement, notwithftanding, continued with great obflinacy till five in the evening; when Antony's forces, partly conftrained by the conduet of Agrippa, and partly perfuaded by the promiles of Oetavianus, fubmitted to the conqueror. The land forces foon after followed the example of the navy ; and all yielded to the conqueror without ftriking a blow the fourth day after the battle.

When Cleopatia fled, Antony purfued her in a fiveoared galley; and coming along.fide of her fhip entered, without feeing or being feen by her. She was in the ftern, and he went to the prow, where he remained for fome time filent, holding his head between his hands. In this manner he continued three whole days; during which, either through indignation or thame, he neither faw nor fpoke to Cleopatra. At laft, when they were arrived at the promontory of Tenarus, the queen's female attendants reconciled them, and every thing went on as before. Still, however, he had the. confolation to fuppofe his army continued faithful to him; and accordingly difpatched orders to his lieutenant Canidius to conduct it into Afia. However, he was foon undeceived when he arrived in Africa, when he was informed of their fubmiffion to his rival. This account fo tranfported him with rage, that he was hardly prevented from killing himfelf; but at length, at the entreaty of his friends, he returned to Alexandria, in a very different fituation from that in which be had left it lome time before. Cleopatra, however, feemed to retain that fortitude in her misfortunes which had utterly abandoned her admirer. Having amaffed confiderable riches by means of confifcation and other acts of violence, the formed a very fingular and unheard of project; this was to convey her whole fleet over the ifhmus of Suez into the Red fea, and thereby fave herfelf in another region beyond the reach of Rome, with all her treafures. Some of her veffels were actually tranfported thither, purfuant to her orders; but the Arabians heving burnt them, and Antony diffuading her from the defign, fhe abandoned it for the more improbable fcheme of defending Egypt againft the conqueror.-He refolves Icheme of defending Egypt againft the conqueror. - He refolves practice, and made all kinds of preparations for war; againft the at leaft hoping thereby to obtain better terms from Oc-conqueror. tavianus. In fact, the had always loved Antony's fortunes rather than his perfon; and if the could have fallen upon a method of faving herfelf, though even at his expence, there is no doubt but the would have embraced it with gladnefs. She even flill had fome hopes from the power of her charms, though the was arrived almoft at the age of 40 ; and was defirous of trying upon Octavianus thofe arts which had been fo fuccefsful with the greatelt men of Rome. Thus, in three embaffies which were fent one after another from Antony to his rival in Afia, the queen had always her fecret agents, charged with particular propofals in her name. Antony defired no more than that his life might be fpared, and to have the liberty of pafing the remainder of his days in obfeurity. 'To thele propofals Octavianus made no reply. Cleopatra fent him alfo public propofals in favour of her children; but at the fame time privately refigned him her crown, with ail the enfigns of royalty.

## R O M

Rome.


To the queen's public propofal no anlwer was given; to her private offer he replied, by giving her aflurances of his favour in cafe fhe fent away Antony or put him to death. Thcle negociations were not lo private but they came to the hnowledge of Antony, whofe jealouly and rage were now heightened by every concur. rence. He built a fmall folitary botife upon a mole in the fe2; and there he paffed his time, lhunning all commerce witin mankind, and profelling to imitate Timon the man-luter. However his furious jealouly drove him even from this retreat into fociety; for hearing that Cleopatra had many iccret conferences with one Thyrfus, an emiflary from Octavianus, he leized upon him, and having ordered him to be cruelly fonnged, he fent him back to his patron. At the fame him he fent letters by him, importing, that he had chattifed Thyrfus for infulting a man in his misfortunes; but withal he gave his rival permikion to avenge himfelf, by fourging Hipparchus, Antony's freeman, in the fame manner. The revenge, in this cafe, would have been highly pleafing to Antony, as Hipparclus had left him to join the fortunes of his more fuccelsful rival.

Meanwhile, the operations of the war were carried vigoroully forward, and Egypt was once more the theatre of the contending armies of Rome. Gallus, the lieutenant of Ottavianus, took Paretonium, which opened the whole country to his incurfions. On the other fide, Antony, who had ftill confiderable forces by fea and land, wanted to take that important place from the enemy. He therefore marched towards it, flattering himelf, that as foon as he fhould fhow himfelf to the legions which he had once commanded, their affection for their ancient geueral would revive. He approached therefore, and exhorted them to remember their former vows of fidelity. Gallus, howcver, ordered all the trumpets to found, in order to hinder Antony from being heard, fo that he was obliged to retire.

Octavianus himfelf was in the mean time advancing with another army before Pelufum, which, by its ftrong fituation, might have retarded his progrefs for fome time. But the governor of the city, cither wanting courage to defend it, or previoufly inftructed by Cleopatra to give it up, permitted him to take poffeffion of the place; fo that Ottavianus had now no obfacle in his way to Alexandria, whither he marched with all expedition. Antony, upon his arrival, fallied out to oppofe him, fighting with greal defperation, and putting the enemy's cavalry to flight. 'This flight advantage once more revived his declining hopes; and, being natually vain, be re-entered Alexandria in triumph. Then going, all armed as lie was, to the palace, he embraced Cleopatrá, and prefented he: a fo'dier who had dittinguilhed himfelf in the late engagement. The queen rewarded him very magnificently; prefenting lim with an head-piece and breaft-plate of gold. With thefe, however, the foldier went off the next night to the other army. Aiuony could not bear this defection without frefin indignation; he refolved, therefore, to make a bold expiring effort by fea and laid, but previounly offered to fight his adverfary in fingle conibat. Octaviaus too well knew the inequality of their fituations to comply with this forlorn ofies; lie only, therefore, cooily replied, that Antony had ways enough to die befides fingle combat.

The evening before the day aprointed for the laft

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defperate attempt, he ordered a grand entertainment to be prepared. At day-breal he putted the few troops he had remaining upon a rifing ground near the city: from whence he lent orders to his galleys to engave the Antony de enemy. There he waited to be a ipectator of the com-lis fleet. bat ; and, at firit, he had the fatisfaction to fee them advance in good order; but his approbation was foon turned into rage, when he faw his thips only taluting thofe of Octavianus, and both fleets uniting together, and failing back into the harbour. At the very fame time his cavalry deferted him. He tried, however, to lead on his infantry ; which were ealily vanquilhed, and he himfulf compeiled to return into the town. His anger was now ungovernable; he could not help crying out aloud as he paffed, that he was betrayed by cleopatra, and delivered by her to thofe who, for her fake alone, were his enemies. In thefe fufpicions he w as not deceived; for it was by fecret orders from the queen that the fleet had pafied over to the enemy.

Clcopatra had, for a long while, dreaded the effects of Antony's jealoufy; and had, fome time before, prepared a method of obviating any fudden fallics it might produce. Neur the temple of 1 his the had erected a building, which was feemingly defigned tor a fepulchre. Hither the removed all her treafure and mult valuable cfiects, covering them over with torches, faggots, and other combultible matter. This fepulche the edefigned to anfwer a double purpofe; as well to fareen her from the fudden refentments of Antony, as to make Oetavianos believe that the would burn all her treafures in cafe he refufed her proper terms of capitulation. Here, thercfore, the retired from Antony's prefent fury; fhutting the gates, which were fortified with bolts and bars of iron: but in the mean tinue gave orders that a report fhould be fpread of her death.This news, which foon reached Antony, recalled all his former love and tendernefs. He now lamented her death with the fame violence he had but a few minutes before feemed to defire it ; and called one of his freedmen, named Eros, whom he had by oath engaged to kill him whenever fortune thould drive him to this lait refource. Eros being now commanded to perform his promife, this faithful follower drew the fword, as if going to execute his orders; but turning his face, plunged it into his own bofom, and died at his mafter's feet. Antony for a while hung over his faithful fervant, and, commending his filelity, took up the froerd stan 249 with which flabbing himfelf in the belly, he fell back-f:lt with waid upon a littie couch. Though the wound was his word. mortal, yct the blood itopping lec recovered his fivits, arid earncily conjured thofe who were come into the rot m to put an e:nd to his life; but they all Bed, being feized with fright and horror. He therefore continued in asonies for lome time; till he was iaformed by one of the quecn's fecretaries that his miftefs was tlill alive. He then earnefly defired to be carried to the place where the was. They accordingly brought him to the gate of the fepulchre ; but Cleo;atra, who would rot permit it to be opened, appeared at the wirdow, and threw down corls in order to pull him up. In this manner, aflited by her two female attendants, fle raifed him alb bloody from the ground; and while yet fulpended in the nir, he contimued firetching out his hands to encourats her. Cleopatra and her maids had only juil flrength fifficicat to raife him ; and at laft, with much Ilraining, they cticiled

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Rime. efficeted their purpofe, and carried him to a coucl, on which they gently laid him. Here fle gave way to her forrow, tearing her clothes, beating her breaf, and kiffing the wound of which he was dyinet She called upon him as her lord, hee hutbend, her emperor, and feemed to have forgot her own diftreffes in the greatnefs of his jufferngs. Antony eniseated her to moderate the tranforts of her grief, and afked for fome wine. After he had drank, he entreated Cieopetra to endeave:. r to preferve her life, if the could so it wihh honour; and recommended Proculus, a friend of Octavianus, as one the might rely on to be her interceifor. Jutt as he had done fpeaking, he expired ; and Proculus m-de his apfearance by command of Onavianus, who bad been informed of Antony's defperate conduct. He was fent to try all means of getting Cleopatra into his power; his mafter having a double motive for his jolicitude on this occafion; one, to prevent her dearoying the treafures the had taken with ber into the tomb; the other, to preferve her perion as an omament to grace his tri umph. Cleopatra, however, was upon her guard, and would not confer with Proculus, except through the gate, which was well fecured. In the mean time, while he defignedly drew out the conference to fome length, and had given Gallus, one of his fcllow foldiers, directions to carry on the converfation in his aufence, he entered with two more by the window at which Antony had been drawn up. As foon as he was entered, he ran down to the gate; and one of the women crying out, that they werc taken alive, Cleopatra, perceiving what had happened, drew a poriard, and attempted to ftab herfelf; but Proculus prevented ti.e blow, and gently remonftrated that fhe was cruel in refufing fo good a prince as his mafter was the pleafure of difplaying his clemency. He then forced the poniard out of her hand, and examined her clothes to be certain the had no poifon about lier. Thus leaving every thing fecured, he went to acquaint his mafter with his proccedinge.

Octavianus was extremely pleafed at finding her in his power : hefent Epaphroditus to bring her to his palace, and to watch her with the utmof circumfpection. He was likewife ordered to ufe her, in every refpect, with that deference and fubmifion which were due to her rank, and to do every thing in his potver to render her captivity agrecable. She whs permitted to have the hononr of gran ing Antony the rites of turiai, and furnifhed with every thing fhe defired, that p as becoming his dignity to rcceive, or her love to offer. Yet thill the languified under lier new confinement. Her excefive forrow, her many lofies, and the blows fie had given her boforn, preduced a fever which fhe feemed villing to increaf. She refolved to ahftain from taking any nourifhment, under the pretence of a regimen necelfary for her diferfer; but ORavianus being made acquainted with the real motive ty her phyfician, began to threaten het rith remard to ther clildicn, in cife the perfified. This was the only furihment that could nowe affet her; fhe allowed herfeli to le treated as they thought proper, and received whatever was prefrriled for her recovery.

In the mean time Ofavianus mide his entry into Alexardria; taking care to mitikate the fears of the inhabitants, by converfing familiarly as he went along with Arcus, a philofopher, anid a native of the place.

## $\left.1 \mathrm{~S}_{4}\right] \quad \mathrm{R}, \mathrm{O} . \mathrm{M}$

The citizus, however, trembied at his approach;" aud when be placed himitit apon the Labunal, they proftated them!lises, nith their faces to the ground, before him, line criminals who waitad the lenteace oi their execution. Oetavians praently or dered them to rife ; telling them, hat three moives induceo him to perdon them : His reipect for Alexander, who was the foutdier of their city; his admiration of its beauty; and bis friend:hip for Areu:, their fellow-citizen. Iwo only of particular nete were put to death upon this occation; Antony's eldelt fon Antyllus, and Cxario, the fon of Julius Cafar ; both betrayed into his hands by their reipective tutors, who themlelves fuffered ior their peridy fhortly after. As for the relt of Cleopara's children, he treated them with great gentlenefs, leaving them to the care of thofe who were entrufted with their edscation, who had orders to provide them with every thing fuitable to their birth. When fhe was recovered from her late indifpofition, he came to vifit her in perfon.Cleopatra had been preparing for this interview, and made ufe of every method the could think of to propitiate the conqueror, and to gain his affection; but in vain. However, at his departure, Octavianus imagined that he had reconciled her to life, and to the indignity of being fhown in the intended triumph, which he was preparing for on his return to Rome: but in this he was deceived. Cleopatra, all this time, had kept a correfpondence with Dolabella, a young Roman of high birth, in the camp of Odavianus; who, perhaps, from compafiion, or ftronger motives, was interefted in the misfortunes of that princefs. From him the learnt the intentions of Octavianus, and that he was determined to fend her off in three days, together with her cbildren, to Rome. She now therefore determined unon dying; but previoufly intreated permiffion to pay leer oblations at Antony's tomb. This requelt being granted her, fhe was carried with her two iemale attendants to the fately monument where he was laid. There tiee threw herfelf upon his coffin, bewailed her captivity, and renewed her proteflations not to furvive him. She then crowned the tomb with garlands of flowers; and having kiffed the coffin a thoufard times, fhe returned home to execute her fatal reflution. Having hathed, and ordered a fumptuous banquet, fhe attired hew If in the moft fplendid manner. She then fealted as 4.1 I .1 ; and foon after ordered all but her two attendants, Charmion and Iras, to leave the room. Then, having previoufly, ordered an afo to be fecretly conveyed to her in a bafket of fruit, the fent a letter to Octavianis, inforuning lim of her fatal purpofe, and defiring to be buried in the fame tumb with Artouy. Octar \{anus, upun receiving this letter, inflantly diipatched meffengers to pre. H vent her, but they arrived too late. Upon cutering the chamber, they bcheld Cleopatia lying dead upon a gilded conel, arra ed in her soya! icbes. Near her, Iras, one of tee faithful attendent was tire:rhed lieiels at the feet of her miftefs; and Charmion lerielf, almoit expiring, was iettling the diacero ou Cleopatra"s head. She died - the ave of tharty the, alier hasing* reigned tre:w tw 1 -e Her do y put an end to th yon rachy in Egypt, which had douriflied there from time immemorial.

C12arivriu. Ceemed much t: ubled at Clecmatra's death, as it dirrived hum of a principal ornament intifís

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## Rame.

intended triumph. However, the marner of it a gocd deal exalted her character among the Romans, with whom fuicide was confidered as a virtue. Het dying requeft was complied with, her body being laid by Antony's, and a magnificent funeral prepared for her and her two faithful attendants.

Aiter having fettled the affairs of Esypt, he left Alexandria in the beginning of September, in the year of Rome 720 , with a defign to retarn through Syria, Afia Minor, and Greece, to Itzi!y. On his arrival at Antioch, he found there Tiridates, who had been raifed to the throne of Parthia in oppnfition to Phrahates, and likewife ambaffadors from thrahates, who were all come on the fame errand; to urit, to folicit the aftutance of the Romans againft eaci o:her. Ostavianus gave a friendly anfwer both to Tiridates and the ambalfadors of Phrahates, without intending to help either; but rather with a defign to animate the $0 \times$ e againit the other, and by that means to weaken both, fo for as to render the Parthian name no longer fotmidable to Rome. After this, having appoinied Meratla Corvines governor of Syria, he marched into the province of Afia, properly fo called, and there took up his winter-quarters. He fpent the whole winter in fettling the affairs of the feveral provinces of Alia Minor and the adjacent illands; and early in the fri:ug palied into Greece, whence he fot out for Rome, which he entered in the month Sextilis, afterwards cailed Juguf?, in three triumplis, which were celebrated for three days together.

And now Octavianus was at the height of his wifhes, fole fovereign, fole mafter, of the whole Roman empise. But, on the other hand, the many dangers which attend an ufurped power, appearing to him in a flronger light than ever, filled his mind with a thoufand perplexing thoughts. The natural averfion of the Fomans to a kingly government, their love of liberty, and the ides of March, when his father Julius was murdered in full fenate by thofe very men whom he thought the moft devoted to his perfon, made him fear th:ere might arife ancther Brutus, who, to reftore liberty to his country, might aflaffinate bim on his very throne. This he knew had hanpened to Julius Cæfar; whereas Sylla, after having laid down the authority he had ufurped, died peaceably in his bed in the mida of his encmies. She paffion of fear outweighed in his foul the charms of a diadem, and inclined him to follow the example of Svlla. He was indeed very unwilling to part with his authority; but fear began to get the better of his ambition. However, before he came to any refolution, he thought it advifable to confult his two mof intimate and trufty friends, Agrippa and Mæcenas ; the former no lefs famous for his probity than his valour; and the latter a man of great penetration, and generally efeemed the moft refined politician of his age. Agrippa enlarged on the many and almof inevitable dangers which attend monarchy, infupportable to a free people, and to men educated in a commonwealth. He did not forget the examples of S:illa and Cæfar ; and clofed his fpeech with exhorting Oftavianus to convince the world, by reftoring liberty to his country, that the only motive for his taking up arms was to reverge his father's death.

Msecenas, on the other hand, remonfizated to him, that he had done too much to go back; that, after VoL. XVIII. Part A.
fo much bloolihed, there could be no fafety for him but on thie throne; that, if he divefted himfelf of the fovereign po:ver, he would be immediately profecuted fon childred frow fons whom the misfortuncs of the times had forced him it by $\mathrm{N}: x$ to facrifice to his fafety; that it was abfolutely necef. cerias.
fary for the welfare and tranquillity of the republic, that the fovereign power fhould be lodged in one perfon, not divided among many, \&zc. Octavianus thanked them beth for their fitendly advice, but thowed himenef inclined to follow the opinion of Mecenas; whereupea that able minifter gave him many wife initructions and rules of government, which are related at length by Dio Caffius, and will ever be looked upon as a mafterpiece in pulitics. Among other things lectold him, ' Hat he could not fail of being fucceffful in all his undertakings, happy in his lifetime, and famous in hiftory after his death, if he never devialed from this rule; to wit, To govern others as be weuld wifh to be governed himiclf, had lee been born to cbey and not to command. He added, That if, in taking upon him the forercign power, lee dieaded the name of king, a name fo odious in a commonwealth, he might content himfelf with the title of Cafar or Irmperaicr, and under that name, which was well known to the formans, enjoy all the authority of a king.

This advice OQtavianus followed, and from that time laid afde all thoughts of abdis ating the lovereign power; but, to deceive ilic people into a beilief that they fill enjoved their arrient fovemment, he continued the old magifrates, with the tame name, pomp, and ornaments, but with juft as much power as he thought fit to leave them. They wate on have no military power, but only their oid jurildiction of deciding finally all caufes, exccut fuch as were cayital ; and though fome of theie laft were leit to the governor of Kume, yet the chief he :eferved for limeleif. He paid great court to the peogle: the very mume that covered his ufurpation was a compliment to them; for he aftected to call it the power of the tribunefhip, lough he actcd as abfolutely by it as if le had cilled it the dictatorial power. He liketsife won the hearts of the populace by cheapnefs of provifions and plentiful nu. rkets; he frequently entertained them witl, flows and fpots; and by thefe means kept thern in good-humour, and made them forget ufurpation, flavery, and every public evil; people in eale and plenty being under no temptation of inquiring into the title of their prince, or refenting acts of power which they do rot immediately feel.

As for the Icnate, he filled it with his own creatures, raifing the number of the confcript fathers to 1000 . He fupplied feveral poor fenators with money out of the treafury to difcharge the public offices, and on all occafions affected a high regard for that venerable body ; but at the fame time divelted them of all power, and reduced them to mere cyphers. To prevent them from railing new diferbances in the diflant provinces, he iffued an edict, forbidding any fenator to travel out of Itily without leave, exrept fuch as had lands in Sicily, or Narbonne Gaul, which at that time coroprehended Languedoc, Provence, and Dauphiny. To thefe provinces, which were near liaiy, and in a perfect fate of tranquillity, they had full literty to recire when they pleafed, and live these upon their eftates. Before lie ended his fixth confu'Mip, he took a ce. '... of the peo-
 Pi., which was $4^{1}$ years after the latt ; w...d in this the nLs: 'ser of the men fit to bear arms amounted to 463,070 , the seateft that had eve been found before. He likewhic celebrated the games which had been decreed by the renate for his victory at Actium; and it was ordered, that they flowild be celebraied every fifch year, four colleges of priefts being appointed to take care of them; to wit, the pontifices, the augurs, the feptemwirs, and quindecimvirs. The more to gain the affections of the people, he ammiled, by one edict, the many levere and unjutt laws which had been enacted during the tritunvirnte. He raifed many public building, repaired twe old ones, and alded many fately ornaments to the city, which at this time was, if we may give credit to fome ancient writers, about 50 miles in compals, and contained near four millions of fouls, reckoning men, women, children, and flaves. He attended bufinefs, reformed abufes, fhowed great regard for the Roman name, procured public abundance, pleafure, and jollity, often appearing in perfon at the public diverfions, and in all things ftudying to render himfelf dear to the populace.

And now Ofavianus, entering upon his feventh confullhip with M. Agrippa, the third time conful, and finding all things ripe for his defign, the pcople being highly pleafed with his mild govemment, and the fenate filled with his creatures, whofe fortunes depended upon his holding the power he had ufurped, went by the advice of Agrippa and Mæcenas to the fenatehoufe; and there, in a ftudied fpeech, offered to refign lis authority, and put all again into the hands of the people upon the old foundation of the commonwealth; being well apprifed, that the greater part of the confcript fathers, whofe interefts were interwoven with his, would unanimoufly prefs him to the contrary: Which happened accordingly; for they not only interrupted him while he was feaking, but, after he had done, unanimoufly befought him to take upon himfelf alone the whole government of the Roman empirc. He, with a feeming reluctance, yielded at laft to their requeft, as if he had been compelled to accept of the fovereignty. By this artifice he compaffed his defign, which was, to set the power and anthority, which he had ufurped, $\because$ onfirmed to him by thenate and people for the face © Io years: for he would not accept of it for a longer .rm, prutending he inould in that time be able to fettle 11 things in fuch peace and order that there would be is further need of his authority; but that he might then eafe himfelf of the burden, and put the governacnt again into the hands of the fenate and people. This method he took to remler the yoke lefs heavy; out with a defign to renew his leafe, if we may be allowed the expreffion, as foon as the ten years were exfired; which le did accord ugly, from ten years to ten years as long as he lived, all the while governing the whole Roman empire with an abfolute and uncontrouled power. With this new authority the fenate refolved to diftinguilin him with a new name. Sime of the confcript fathers propofed the name of Romulus, thereby to import that he was another founder of Rome; others offered other titles; but the venerable name of Auguftus, propofed by Manutius Plancus, feemed preferable to all the ref, as it expreffed more dignity and reve- rence than authority, the mof facred thinge, fuch as temples, and places confecrated by augurs, being termed
by the Ronnus Argufa. Octavianus himfelf was inclined to allume the name of Rsmulus; but, fearing he fhould be fulpected of affecting the kingdom, he declined it, and took that of Auguflus, by which we fhall henceforth diftinguifh him.

Though the whole power of the feriate and people was now velted in Auguttus, yet, that he might feem to thare it with the confeript fathers, he refufed to govern all the provinces; affigning to the fenate fuch as were quiet and peaceable; and keeping to himfelf thof. which, bordering upon barbaions nations, were moft expofed to troubles and wars, faying, He defired the fathers might enjoy their power with eafe and fafety, while he underwent all the dangers and labours: but, by this politic conduct, he fecured all the military power to himfelf: the troops lying in the provinces he had chofen; and the others, which were governed by the fenate, being quite deflitute of forces. The latter were called fenatorial, and the former imperial, provinces. Over the provinces of both forts were fet men of diftinction, to wit, fuch as had been confuls or protors, with the titles of proconful and proprator; but the government of Egypt was committed to a private knight, Auguftus fearing left a perfon of rank, depending upon the wealth and fituation of that country, might raife new difturbances in the empire. All thefe governors held their employment only for a year, and were upon the arrival of their fucceffors to depart their provinces immediately, and not fail to be at Pome within three months at the farthef. This divifion of the provinces was made, according to Ovid, on the ides of Jamuary; whereas he was vefled by the fenate and people with the fovereign power on the feventh of the ides of the fame month, as is manifeft from the Narbonne marbles; and from that time many uriters date the years of his empire. Thus ended the greateft commonwealth, and at the fame time began the greateft monarchy, that. had ever been known; a monarchy which infinitely excelled in power, riches, extent, and continuance, all the empires which had preceded it.

It comprehended the greateft and by far the beft part. Extent, 8 c of Europe, Afia, and Africa, being near 4000 miles in of the Rolength, and about half as much in breadth. As to the man emyearly revenues of the cimpire, they have by a moderate ${ }^{\text {pire. }}$ computation been reckoned to amount to forty millions of our money. But the Romans themfelves now ran. headlong into all manner of luxury and effeminacy. The people were become a mere mob; thofe who were wont to direct mighty wars, to raife and depofe great kings, to beftow or take away potent empires, were fo funk and debauched, that, if they had but bread and fhows, their ambition went no higher. The nobility were indeed more polite than in former ages; but at the fame time idle, venal, vicious, infenfible of private virtue, ufter Atrangers to public glory or difgrace, void of zeal for the welfare of their country, and folely intent on gaining the favour of the emperor, as knowing that certain wealth and preferment were the rewards of ready fubmiffion, acquiefcence, and flattery. No wonder, thesefore, that they lof their liberty, without being ever again able to retrieve it.

Auguftus, now abfolute mafter of the Roman em- Wilitary pire, took all methods to ingratiate himfelf with hisenabiifhfoldiers, by whofe means he had attained fuch a height ments of of power. With this view; he difperfed them through Auguftus.
different

## H O M [ 187 〕 R O MI

Rome. different patts of Inaly in $\hat{3}^{2}$ colonice, that he might tle more cafily raffemble them ois proper occ..fins. H: kept 2.3 legions contantly on foot, 17 ot whin in Europe ; viz. eight on the Plline, four on the $\mathrm{D}_{7}$ nube, three in Spais, and two in D. Imitia. The "t cr eight were fent into Afia and Africa; four of them being quartered in the neighbourthood of the Eup : $\quad$. tes, two in Egypt, and two in Af cia Propria, t it ;, the ancient dominions of Carthage. All thelefice, amounting to $170,650 \mathrm{men}$, were conttantly kept on foot by the lioman eraperors for fevelul ages. In the neighbourhood of Rome were always onirtered 12 cohorts, that is, about 10,000 men ; rive of which were called pratarian coliorts; the other three, criy col r:'. Theie were ettablithed as a guasd to the emperor, and to maintain peace and tranquillity in the city, but had often a great fhare in the diturbances which took place throughout the empire. Betides thefe, Augultus conftantly kept at fea two potwerful navies; the one riding at anchor near Rasenna in the Adriatic fea, to command Dalmatia, Greece, Cyprus, and the reft of the ef Rern provinces; the other at Mifenum in the Mediterrunear, to keep in awe the weftern pats of the empic. They were likewile to keep the feas clear of pirates, to convoy the veffels which brought to Rome the annual tributes from the proviaces beyond fea, and to tranipot corn and other provifions neceffiary for the relief and fubsittence of the city. As to the civil government, Auguftus enacted feveral netv laws, and reformed fome of the old ones : however, be affected to do nothing without the advice of the fenate; who were fo well pleafed with the complaifance fhowed them on all occafions, that to the reil of his titles they added that of Patcr Patriz, or "Father of his Country."

And now Auguitus having fettled all things with regard to the civil and military eftablithments of the empire, turned his arms againft the Spanih nations called the Cantabrians and Aftrians, who had never been fully fubdued. The war, however, terminated as ufual, in favour of the Fiomans; and thefe brave nations were forced to receive thie yoke, though not without the moft violent refilance, on their part, and the utrooft difficulty on that of the limans (See Asteria).

By this and his other conquells the name of Augurlus became fo celebrated, that his friendlhip was courted by the moft diftant monarchs. Plarahates king of Parthia confented to a treaty with him upon lis own terms, and gave him four of his own fons with their wives and children as hoftages for the pufformatice of the articles; and as a further inftanice of his refpest, he delivered up the Roman eagles and other enfigns which had been taken from Craflus at the battle of Carriae. He received alfo an embaffy from the king of India, with a letler written in the Greek tongue, in which the Indian monarch informed him, that "though he reigned over $6=0 \mathrm{king} s$, be had fo great a value for the friendfhip of Auguftus, that he had fent this cmbafly on fo long a journey on purpofe to defire it of him ; that he was ready to meet him at whationver place he pleafed to appoint; and that, upon the firt notice, he was ready to affit him in whatever was right.". Tits letter he fabferiked by the lame of Porus king of India. Of the ambaffadors who fet out from Indi?, three orlly reached the preferice of Auguf1\%, who wis at that time in the ffand of Same, the
others dyine the way. Of the three Diersi $:=$ or: w s nemed Zarmar, a bymno op hite, who follor ed the en ror to dihen-, and there bunt himfetr in his prefence; it being cu tomary tor the gymnufor hirs to purs. ai ce d to theililives ian th. manner, fich they thod. il y ind lived long enough, or appelan ad me mi fo ti.e. Soun after this the Roman domition swere cr. teved futhward over the G or mantes, a people whol: cou try rached is far as the river Nizur. All thit time the emperor continued to n : $\mathrm{k}:$ netr regulations for the good of the thate ; and amol other things caufed th. S" yline oracles to te reviewed. Mary of thetc be reject d; but fuch as viere rechoned autiontic, he cuard to e copied by the pontifices themielves, and lodged thom in golden cabinets, w! ich he placed in the temile of Apolio, built by ham in is pal ce.

Tif Ruman empire had not extended iffelf fo far, theon em that it feemed to have arrived at the limits pieferibedin ath t) it $1, y$ nature; and as foon as this was the cafe, it $\quad \cdots$...... began to be attacked 'y thofe 12 Kns which in pro- b.t. . cels of time were to overthrow it. The Germans, by wiich name the Romans confounded a great number of nations dwelling is the northem pars, of Europe, began to make incurfiots imto Gaul. 'Their firft attempt happened in the year 17 B. C. when thry a! firlt gained an in.confiderable advantage, but were won driven back with great lofs. Soon atter this I... Bh:reti, who feem to have inhahited be country bordering on the lake of Conflance, invadtd Luty, where they committed dreadul dev.fations, putting all the male. to the fword without diditi ction of rank or age; nay, we are told, that, when women with child happened to fall into their hands, they cosfulted their akyurs whether the child was male or female; and it they pronounced it a male, the mother was immediately maflacred. Againft thefe barbarians Auguftus fent Drufus the fecond fon of the emprefs Livia; whio, though very young, found means to gain a complete victory with very little lofs on his part. Thofe who elcaped took the road to Gaul, beiing joired by the Vindelici, another nation in the neighbourhood; but Tiberius, the elder brother of Drufus, marched againft them, and overthrew them f completely, that the Rheti, Vindelici, and Norici, three of the molt barbarous nations in thofe parts, werc fain to fulmit to the pleafure of the emperor. To keep their csuntry in awe, Tiberius plaited two culories in Vindehcia, opening a roid from thence into Noricum and Rheria. Onc of the citics which he built for the deferice of his colonies was called $D$ ys imagus ; the other, Anguy a lindelicorum; both of which are now kiown by the names of Nowinghen and slugsburg.

Augul us, who bad long fince ohtained all the tem- Alot ${ }^{255}$ pora! honous which conld well be conferred upon hin, mem 1 novi coan wanime thure of the firitual kind alfo : $x$ being in the yerr 13 33. C. crated Po tifex Maximus : Masan ... an fire whi h he combinued to hatd ill his death ; as did atho his fucceflors till the time of Cheudofius. By virtue of this sffice he correct.d a very grofs millake in the Roman kilendar; for the ponifies, laving, for the fpace of 36 years, that is, ever fuce the r f ftmation by Julius Cielar, made ciery third year a lo year, inAted of ciery fourth, twelve days had been inferted inAtad of tine, fo that the Ruman year corfifted of three days more thin it on tht to hive done. 'Thefe blaree

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Rome.
 fuperhuous days having been thrown out, the furm of the year has evcr fince been regularly oferved, and is fill inown by the name of the old Ayle in afe among as.: On this occafion he gave his own name to the stoonth of :Auguf, as Julius Coflar had formerly done to

In the year 11 B. C. Agrippa died, and was fucceeded in this high employment of governor of Rome, by STiberus; but, before inveftirg him with this anple power, the emperor caufed kim to divorce his wife Aprippina (who had already brought him a fon, and was then big with child), in order to marry Julin the widow of Agrippa and daughter of the emperor. Julia was a princefs of an infamous character, as was known to almolt every body excepting Augratus himfelf; however, Tiberius made no hefitation, through fear of difobliging the emperor.

The emperor now fent his tro fons Tiberius and Drufus againt the northern nations. Tiberius reduced the Pannonians, who had attempted to fhake off the yoke after the death of Agrippa. Drufus performed great exploits in Germany; hut while he was confidering whether he fhould penetrate further into thefe northern countries, he was feized with a riolent fever, which carried him off in a few days. He was fucceeded in his command by Tiberius, who is reported to have done great thing; but certainly made no permanent conquelts in Germany. However, be was honoured with a tritmph, and had the tribuntial power for five years conferred upoa him; which was no fo ner done, than, to the great furprife of Auguftus and the whole city, he defired leave to quit Rome and retire to Rhodes. Various reafuns have been affigned for this extraordinary refolution: fome are of opinion that it was in order to avoid being an eve-witnes of the debaucheries of his wife Julis, who fet no bounds to her lewdnefs; though others imagine that he was offerded at the honours which Augufus had conferred on his.grandchildren, efpecially at his fyling them primces of the Roman youth; which left him no hopes of enjoying the fovercign power. However, Auguftus pofitively refufcd to comply with his requeft, and his inother Livia ufed ber ulinoft endeavours to diffuade him from his refolution : hut Piberies continues obeti1nate; and, finding all other means ineffictual, at laft thut himfelf up in his houfe, where he abotained four whole days from nourifhment. Augufts, perceiving that be could not get the better of his obltinate and inficxible temper, at latt complied with his requeft. Tiberius foon grew weary of his retiremeat, and, giving ont that he had left Rome only to avoid gixing umbrage to the emperor's two grandchild:en, defired lave to return; but Augultus was fo much difplcafed with his having obftinately inffed on leaving Pome, that le obtiged him to remain at Fhodes for leven yeats longer. Fis morher, with muc? ado got him declared the emperos's lieutenant in thofe parts; bat Tiberius, dreading the refentment of his father-in-liw, contimed to aft is a private perfori daring the whole time of his, flay there.

A profound peace now reigned throughout the whole empire; and in confequence of this the temple of Janus was flut, which had never before happened fince the time of Numa Pompilius. During this pacifie futerval, the Saviour of mankind was born in Ju-

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dx?, as is reconded in the facred hitory, 748 years after the foundation of Rarie by Pomulus. Three years after, Tiberius retarned to the city, by permilion of Birth of Aurgutus, who yet would not allow filim to bear any chrith puobic oflice ; bat ia a thort tixe, Yucius Cefar, one of the emperor's' grandclitidren, died, not without fufyicions of his being poil?ned by Livia. Tiberius howed fuch great concern for his death, that the afiegion of Augutus for him returned; and it is faid that he would at that time have adopted Tiberius, had it not been for giving umbrage to his other grandfon Caius Cexfir. This obitacte, however, was loon after removed; Cains being taken off alfo, not without great furpicems of Livia, as well as in the former cale. Auguttus, was exceedingly conccrned at his death, and imanedintely adopted liberius as his fon; but adopted
 Agrippu ; and obliged Tiberius tc adopt Germanicus berius as bis the fon of his brother Drufus, though be had a foa of ${ }^{\text {faum }}$ his own named Drufus; which was a great nortifica. tion to him. As to $\Lambda$ grippa, however, who might have been an occafion of jealoufy, Tiberius was foon freed from him, by his difgrace and banilliment, which very foon took place, but on what account is not knokn.

The northern nations now began to turn formidabie: and though it is pretended that Tiberius was always fuccefful againt them, yet about this time they gave the Romans a moft tertible cyertirow; three le cions and fix cohorts, under Quintilius Varus, being almolt entirely cut ia pieces. Augunus fet no bounds to his grief on this fatal occafion. For fome months he tet his hair and bcard grow, frequently tearing tis. garments, knocking his head againf the wall, amal crying out like a diftrated perfon, " Reflore the legions, Varus!" Therius, however, was loon ofier fent into Germany ; and for his exploits there he was honour\& with a triumph. Augeflus now took him for his colleague in the fovereignty ; after which the fent Germanicus aysingt the northern babbarians, and Tilbcrius into illyricum. This was the latit of his public aets ; Deatie. if for having accompanied Tiberius for part of lis jour- Auggitus. ney, be died at Nola in Campania, in the $\approx$ Gth year of his age, and 56th of his reign. Livia was fifpected of having haflened lis death by giving him poifoned fige. Fiter reation foo this was, that he feared a recouciliation between him and his grandion Agrippa, whom he had banified. as we have already related. Some morths b:tore, the emperor had prid a vifit to Agrippa, unknown to Livia, Tiberius, or any other perfon, excepting one Fabius Maxinus. This man, on his reiurn hom.e, difcovered the fecret to his wife, and die to the emprets. Augufus then perceiving that Fabius had betrayed, lim, was fo provoked, that he bawihed him from his prefence for ever; upon which the unfortunate F. Fibus, unatich to furtive his difgrace, laid riukent lands ot hindéf.
Tiberiius, who fucceeded to the empire, refolved to, focure himelf on the throne by the murder of Ayrippa ${ }_{\lambda}$ whom accoodingly he caufed to be put to death hy a military trioune. Though this might have been a fufficient evidence of what the Romans had to expect, the death of Augufus was no fooner known, than the coinfiuts, fenators, and knights, to ufe the exprefion of Tacitus, ran headlong inio Paiery. The two confuls

## R $O$ it

fift took at oafl of fidelity to the cmperor, and then adrinificied it to the Femate, the people, and the foldiery. Tiberius behaved in a dari myfterious manner, t.aking cire to rule with an abfolute fiway, but at the fame lime fo-ming to lecitate whether he fhould accept the fureteign power or nut; infomuch that one of the fermators touk the liberty to tell him, that other men were liow in performing what they had promifed, but he was flow in proming what he had already perfurmed. At laft, however, his modefly was overcome, and he declared his arceplatice of the fovereignty in the followsing words: "I accept the empire, and will hold it, till fach time as you, comicript fathers, in your great prudence, thall think proper to give repore to my old age."

Tiberius had fcarcely taken poffefion of the throne, when news were brought him that the armies in Pannonia and Germany bad mutinied. In Pannonia, three legions having been allowed fome days of relaxation from their ufual duties, either to mourn for the death of Augulus, or to rejoice for the acceffion of Tiberius, grew turbulent and Feditions. The Pannonian muliseers were headed by one Percernius, a common foldier ; who, before he ferved in the army, had màde it his whoie bufinefs to form parties in the theatres and playhcufes to hifs or applaud fich acturs as he liked or difliked. Intamed by the fpeeches of this man, they openl; revalted; and though Tiocrius himfelf wrote to them, and fent his fon D:uras to endeavour to quell the tumu't, they maflacred forme of their officers, and infulted othees, till at lait, being frightened by an eclipie of the moon, they began to fhow fome figris of repontance. Of this favourable difpofition Drufus took acluantage ; and even got the ringleaders of the revit condemned añd executed. Immediately after this they were again terrified by fuch sicient florms and dreadful rains, that they qquictly fubmitted, and ęvery thing in that çuarter was reftored to tranguillity.

The revolt of the German legions threatend much more danger, as they were more numerous than thofe of Panncnid. They proceeded nearly in the fanse way as the Pannonian legions, faliing upon their othicers, efpecially the centurions, and beating thera till they almof expircd, dove them out of the com. and fome of them were even throun into the ?'ine. Germanicns, who was at that time in Gasi, hanencl to the camp on the firft news of the dithurbanre ; but being unable to prevail oin them to return to their duly, he was ouliged to feign letters from Tiberius, grenting all their demands. Thefe were, That ali thole who had ferved 20 years fhould be difcharged; that fucin as had ferved 26 Quould be deemed yeterans; and tiat forse legacics which bad been left them by AuruRas Mow'I not only be paid immediately, but doulled. '11.is lat articie he was obliged to difciarcie without delay out of the moncy which he and lis thends had orought to defray the expences of their joarney ; and on recciving it, the troops quiletly retired to their vinier guarters. But, in the mean time, fome depaties fent cither by Tiberrius or the fenate, probably to queif the feclitien, occafioned frefh difturbances; for the legionaries, taking it into their hends that there deputics vere come to re oke the conceflions which Germanicus had mande, were with difficylty prevepted from tearing them in pieces; ; and,' nottrithfanding the utmof endcavours. of

Grrmanicus, belaved in fuch an outrageous manner, that the general thought proper to fead off his wife Agrippina, with her infant fon Claudius, the herfelf at the fame tinc being big with child. As the was attended by many women of diftisetion, wives of the chief officers in the camp, their tears and lamentations in parting with their hafbands occafioned a great uproar, and dre: together the fuldiers from ali quarters. A new fcene exitised, which made an impreflion even upos the moft oblitinate. They could not behold, sithoct fhome and corapafion, fo many women of rank travelling thus forlor:, without a centurion to attend them, or a foldier to guard them; and their general's wife among the ref, carrying her infant child in her arms, and preparing to fly for fhelter againif the treachery of the Roman legions. '1llis made fuch a doep impreffion on the minds of many of them, that fonse ran to fiop her, while the reft recurred to Germanicus, earneftly intreating him to recall his wife, and to prevent her from being obliged to leek a fanctuary among foreigners. The general improved this favourable difpofition, and in a flort time they of their own accord feized and maffacred the ringleaders of the revolt. Still, how 4 cver, two of the legions continued in their difobedience. Againft them theefore Germanicus determined to lead thofe who had sctumed to their duty. With this vicw he prepared veffels; but scfore he embarked his troops, he wrote a letter to Cxesina who commanded them, acquainting him that be approached with a powerful army, refoived to put them all to the ficerd wihout difinction, if they did not prevent him by taking vengeance on the guilty themfelves. This letter Carcina communicated on'y to the chief officers and fuch of the foidiers as had all along difapproved of the revolt, exhorting them at the fame time to enter into an affuciatien againf the feclitious, and put to the fwood fuch as tad involived them in the prefent ignominy and guilt. This propofdl was approved of, and a The revote crucl maffacre immediately took phace; infomuch that guelled by when Germanicus came to the camp, he fourd the a dreadfut greateit patt of the legions deftroyed. This greatly af, maftiv $\quad=$ fe.ted the humane Germanicus, who crufed the badies of the flain to be burnt, and celelorated their offequies with the ufual folemnitics; however, the fedition was thus effec aaily quelled, after which he led his army into Germiny. linere he performed many great CN plot's * Let zill all that he cowid perform was fat froen * freeing the empi:e from fo daugcrons and toluthetiome anin cremj. Ia the year 19, he died, of poifon, is wess fup'pofed, given by Pilo, his pastser iu the-govermment of Syria, to which Germanicus i.as heea pruatut ater his returin from the rorth.

In the mesu time, Tibcriug, though he affeged to con:t the fayour of the people by variaus methods, yet fhowed himieif in geseral fuch 2 crucl and bloodthirfly typant, that he became the otgeat of urivetiad. abhorrence. Tliorgb he had bated Cesnianicus-in his. heart, hee punithed Pifo with Leath; but in about a * ir after the death of Germanicus, laving now no riveine a object of jealouly to keep him in aryc, he began to rant. pull of the malk, and appean more in his mutural character than beforc. Hicturk upon himpelf the inter-n, prctation of all poiitical meafures, and began daily so 2 diminifh the authority of the Senate; which dufign was nuch facilitated, by their own aptitude to ilh-

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Rome. very; fo that he defpifed their meannefs, while he enjoyed its effects. A law at that time fubfited, which madc it treafon to form any injurious attempt againft the majeliy of the people. liberius affursed to himfelt the interpretation and enforcement of th is law ; and extended it not only to the cales which really affected the falety of the ttate, but to every conjuncture that could polfibly be favourable to his hatred or fufpicions. All freeciom was now theecfore banithed from convivial meeting; and diffilence reigned amo: ${ }^{\text {? }}$ ? the deareft relations. The law of offended majelty being revived, many perions of diftinction fell a lacrifice to it .

In the begianing of thefe cruelties, Tiberius took into his confidence Sejanus, a Roman linight, but by birth, a Vollcian, who found out the me hud of gaining his confilence, by the moft refined degrce of di:fimulation, being an over-match for his malter in his own arts. He was made by the emperor captain of the Prætorian guards, one of the moft confidential trutts in the thate, and extolled in the fenate as a worthy affociate in his labours. The fervile fenators, with ready adulation, fet up the fatues of the favourite befide thofe of Tiberius, and feemed eager to pay him fimilar honours. It is not well known whether he was the advifer of all the cruelties that enfued foon after; but certain it is, that, from the begirning of his miniftry, Tiberius feemed to become more fatally fuficicious.

It was from fuch humble beginnings that this mini-
facles to his ambition. Fe now therefore began to itilinuate to Tiberius the great and nunicrus inconveni- $\underbrace{\text { Ros }}$ ences of the city, the fatignes of allending the linete, 274 and the feditious temper of the inferior citizens of liome. Tiberins icTibctius, either previlled ut on by his perfuafions, or tires from purfuing the nateral turn of his temper, which led to in- Rome. dolence and debouchery, in the twelftly year of his reign left Rome, and went into Camparia, under pretence of dedicating temples to lupiter and Augultus. After this, though be removed to feveral places, he never returned to Rome ; but fpent the greateft part of his time in the illand of Caprea, a place which was rendered as infamous by his pleafures as deteitable by his cruelies, which were focking to human nature. Buried in this reiteat, he gave himfelf up to his pleafures, quite regardlels of the miferies of his fubjects. Thus an infurrection of the Jews, upon placing his flatue in Jerufalem, under the government of Pontius Pilate, gave him no fort of uneatinefs. The falling of an amphitheatre at Fidenre, in which 50,000 perfons were either killed or wounded, no way aflected his repofe. He was only employed in ftudying how to vary lis odious pleafures, and forcing his feeble framc, thattered by age and former dcbaucheries, into the enjoyment of them. Nothing can prelent a more horrid picture than the retreat of this impure old man, attended by all the minifters of his perverted appetites. He was at this time 67 years old; his perfon was moft difpleafing; and fome fay the difagreeablenefs of it, in a great meafure, drove him into retirement. He was quite bald before; his face was all broke out into ulcers, and covered over with flatlers; his body was bowed forward, while its extreme height and leannefs increafed its deformity. Wi h fuch a perfon, and 275 a mind fill more hideous, being glcomy, fufpicious, and nable concruel, he fat dorn with a view rather of forcing his ap-dhct in his petiles than fatisfying them. He lpent whole nights in retreat. debaucheries at the table; and he appointed Pomponius Flaccus and Lucius Pifo to the firft pofts of the empire, for no other merit than that of having fat up with him two days and two rights without interruption. Thefe he called his friends of all hours. He made onc Novelius Torgnatus a prætor for being able to drink off five bottles of wine at a draught. His luxuries of another kind were fill more deteflable, and feemed to increafe with his drunkennefs and gluttony. He made the moft eminent women of Rome fubfervient to his lufls; and all his inventions only feemed calculated how to make his vices more extravagant and abominable. The numberlefs obfcene medals dug up in that inland at this day bear witnefs at once to his fhame, and the veracity of the hiftorians u ho have defcribed his debaucheries. In flort, in this retreat, which was furrounded with rocks on every fide, he quite gave up the bufinefs of the empire; or, if he was ever active, it was only to do mifchief. But, from the time of his rctreat, he became more cruel, and Sejanus always endearoured to increafe his diftrufts. Secret fpies and informers were placed in all parts of the city, who converted the molt harmlefs actions into fubjects of offience. If any perfon of merit tellificd any concern for the glory of the cmpire, it was immediately conftrued into a defign to obtain it. If another fpoke with regret of former liberty, he was fuppofed to aim at re eflablinhing the commonwealth. Evesy action became liable to forced interpretations; joy cxprefed an hole of the prince's death; melancholy, an cnyying of

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 frument that he wrought upoa at his plear.:e, and by He therefore continued to render the:n olmos: or, $t$, the emperor, to alarm him with falle reports of their an'itthe two princes Nero and Drufus were dectared ensnifhment. the fenate. The number of his flatues exceeded even but certain it is, that he attempted to ufurp the empire, hended. He granted him new honours at the very time he refolved his death, and took him as his colleague inhis profperity. Sejanus found hiv aime en day fucceeding; the wretched emperots terrors ai... an in which he levelled every obllacle to his deligns. But the chief objects of his jeal uly wate the children of Germanicus, whom he refolved to !et out of $t$ - : $\%$. tion, and to terrify them with alarms of $h$ 's inten ld d cruelty. By thefe means, he fo contrived to widen the breach, that he actually produced on both fides thofe difpofitions which he pretended to of riate; ti.l at $1 \cdot \mathrm{gh}$ h, mies to the ftate, and afterwards ftarved to death in prifon; while Agrippina their mother was fent into ba-

In this manner Sejanus procceded, removing all who flood between him and the empire, and crery day increafing in confidence with Tibenius, and power with thofe of the emperor; people fivore by his fortune, in the fame manner as they rould have done had he been actually upon the throne, and he was more dreaded than even the tyrant who actually enjoyed the empire. But the rapidity of his rife feemed only preparatory to the greatnefs of his downfall. All we know of his firlt difgrace with the emperor is, that Satrius Sccundus was the man who had the boldnefs to accule him. Antonia, the mother of Germanicus, feconded the accufation. What were the particulars of his crimes, we cannot learn; by aiming at the life of Tiberius. He was very near difpatching him, when his practices were difoovered, and his own life was fuoftituted for that againft which he aimed. Tiberius, fenfible of the traitor's power, proceeded with his ufual diffimulation in baving him apprethe confuthip. The emperor's letter to the fenate began orly with flight complaints againtt his friend, but ended with an order for putting him in prifon. He intreated the fenators to protect a poor old man, as he was, abandoned by all; ard, in the mean time, prepared fhips for his flight, and ordered foldiers for his fecurity. The fenate, who had long been jealous of the favourite's power, and dreaded his cruelty, immediately took this opportunity of going beyond their orders. Inflead of fentencing him to imprifonment, they directed his execution. A frange revolution now appeared in the city; of thofe numbers that but a moment before were preffing into the prefence of Sejanus, with offers of Cerrice and adulation, not one was found that would feem to be of his acquaintance: he was deferted by all; and thofe who bad formerly reccived the greateft bencfits from him, feemed now converted into his mofl inveterate enemies. As he was condusting to exeution, the people loaded him with infult and execration. He attempted to hide his face with his hands; but even this was deried him, and his hands were fecured. Nor did the rage of his enemies fubfle with his death; his bolly was ignominioufly dracoed ahrut the Areets, and his whole family execoted wi h him.

Mis death only lishred up the emperor"s raze for further executions. The nrifons were crowded with pretended accomplices in the confpiracy of Sejenus, Ii -

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berius b.gan to grow we ay of palicular executios; l.e therefoc gor t.ate that all the accurcil ilw 1? he put to death togethe: without further ex mimation. Of 20 fenators, whom he chofe for his council, h. it i6 11 , frous to dea h. "Let them hate me cried he) fo long as $1: 3$, ty of they obey me." He Il on averred, that Priam was a happy man, who out ived all his poterity. In this manner there was not a day without I me batbarsus execution, in which the fufferers were obliged to undergo the most thancfol indisnities and exquifie torm n/s. When one Camillus had killed himfelf to avoid the corture: "Ah (cried Tiberius), how that man has been able to efeape me !" When a prifoner earnedly intreated that he would not defer his death: "No (cried the tyrant), I am not fufficiently your friend, to finorten your torment." He often fatisfied his eyes with the tortures of the wretches that were put to denth beforc him; and in the days of Suctonius the rock was to be feen, from which he ordered fuch as had difpleafed him to le thrown headlong. As he was one day examiniog fome perfons upon the rack, he was told that an old friend of his was come from Rhodes to fee him. Tiberius fuppoing him brought for the purpole of information, immediately ordered him to the torture ; and when he was convinced of his miftake, he ordered hin: to be put to death, to prevent farther difcovery.

In this manner did the tyrant continue to torment others, although he was himfelf ftill more tortured hy his own fufpicions; fo that in one of his letters to the fenate, he confeffed that the gods and goddeffes had fo aflicted and confounded him, that he knew not what or how to write. In the mean time, the frontier provinces were invaded with impunity by the barbarians. Mrefia was feized on by the Dacians and Sarmatians; Gaul was wafted by the Germans, and Armenia conquered by the king of Parthia. Tiberius, however, wis fo much a flave to his brutal appetites, that he left his provinces wholly to the care of his lieutenants, and the: were intent rather on the accumulation of private fortune than the falety of the fate. Such a total diforder in the empire produced fuch a degree of anxiery in hime who governed it, that he was heard to wihl, that heaven and earth richt perith when he dicd. At length, however, in the 22d year of his reign, he began to feel the approzches of his diffolution, and all his appetites totally to forf ke him. He now, therefore, found it was time to think of a fucceffor, and befitated for a long while, whether he flould choofe Caligula, whofe vices were too apparent to efcape his obfervation. Ite had been often heard to fay, that this youth had all the faults of Sylla, witl ut his virtues; that he was a ferpent that woud fling the empire, and a Phaeton that would fet the wonld in a flame. However, notwit's 'ar ding all his well.gruanded apprehenfons, he named him for his $\mathrm{Cl}{ }^{2} 7{ }^{2}$ ? f cecfor; willing, perlaps, by the enormity of Caligu- (o) $1 w^{3}$ a for la's conduct to cover the memory of his own.

But though he thought fit to chafe a fucceffor, he ${ }^{\text {r }}$. conconled his approaching declipe $n$ ith the utmoff care, as if he was wiling at once to hide it from the wro and himflif. He long had a contempt for phy fic ad refuled the advice of fueh as stlended him; ecos fecmed to $t$ ke a pleafure in teing prefent at the I, wits of the foldiers, and ventured himfilf 10 thers, a jove in at a bour the.t was let loofe before hire. I't ? 1 which he made unon this occafions caufed a gan in tiv

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R:me. fide, which haftened the approaches of death : fill, howesmer, he feemed willing to avoid his end ; and ftrove, by change of place, to put off the inquietude of his own reffections. He left his favourite illand, and went upon the continent, where he at laft fixed at the promontory of Mifenum. It was here that Charicles, his phyfician, pretending to kifs his hand, felt the failure of his pulfe; and appriled Macro, the emperor's prefent favourite, that be had not above two days to live. 'Tiberius, on the contrary, who had perceived the azt of Charicles, did ali in his power to imprefs his attendants with an opinion of Kis bealth: he continted at table till the evening; he faluted all his guefts as they left the room, and read the acts of the fenate, in which they had abfolved fome perlons he had written againft, with great indignation. He refolved to take fignal vengeance of their difobedience, and meditated new fchemes of cruel. ty, when he fcll into fuch faintings, as all believed were fatal. It was in this ittuation, that, by Macro's advice, Caligula prepared to fecure the fucceffion. He received the congratulations of the whole court, cauled himfeif to be acknowledged by the Protorian foldiers, and went forih from the emperor's apariment amidft the applaufes of the multitude; when all of a fudden he was informcd that the emperor was recovered, that he had begun to foeak, and defired to eat. This unexpected account filled the who'e court with terror and alarm: every one who had before been earnelt in teftifying their joy, now re-aflumed their pretended forrow, and left the new emperor, through a feigned folicitude for the fate of the old. Caligula himfelf feemed thunderftruck; he preferved a gloomy filence, expecting nothing but death, inftead of the empire at which he had afpired. Macro, however, who was hardened in crimes, ordered that the dying emperor fhould be difpatched, by fmothering him with pillows, or, as others will have it, by poifon. In this manner liberius died, in the $7^{8 \text { th }}$ year of his age,
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Corruptions of the Ro- e coans at this e time. after reigning 22.

The Romans were, at this time, arrived at their higheft pitch of effeminacy and vice. The wealth of almoft every nation of the empire, having, for fome time, circulated through the city, brought with it the luxuries peculiar to each country; fo that fome p:rented a deteftable picture of various pollution. In this reign lived A picius, fo well known for having reduced gluttony into a fyftem; fome of the muit notorious in this way, thought it no fhame to give near 100 pounds for a fingle fin, and exhauft a fortune of 50,000 pounds in one entertainment. Dcbaucheries of every other kind kept pace with this; while the deteftable folly of the times thought it was refining upon pleafure to make it unnatural. There were at Fome men called Spintria, whofe fole trade it was to ftudy new modes of pleafure; and thefe were univerfally favourites of the great. The fenators had long fallen from their authority, and were no lefs ehranged from their integnity and honour. Their whole fludy ieemed to be, how to invent new ways of flattering the emperor, and various methods of tormenting his fuppofed enemies. The people were fill more corrupt: they lad, for fome years, been accuftomed to live in idlenefs, upon the donations of the emperor; and, being fatisficd with fubfiftence, entirely gave up their freedom. Too effeminate and cowardly to go to war, they only railed againft their governors; fo that they were bad foldiers and feditious cilizens. Int the

18th ycar of this monarch's reign, Chrift was crucified. Rome. Shortly after his death, Pilate is faid to have written to Tiberius an account of bis paffion, refurrection, and miracles; upen which the emperor made a report of the whole to the fenate, defiring that Chrift might be accounted a god by the Romans. But the fenate being difpleafed that the propofal had not come firft from themfelves, refufed to alluw of his apotbeofis; alleging an ancient law, which gave them the fuperintendance in all matters of religion. They even went fo far, as by an edict to command that all Chriftians fhould leave the city: but Tiberius, by another edict, threatened death to all fuch as Ghould accufe them; by which means they continued unmolefted dering the relt of his reiga.

No monarch ever came to the throne with more advantages than Caligula. He was the fon of Germanicus, who had been the darling of the army and the people. He was tred among the foldiers, from whom he received the name of Caligula, from the ftort bufkin, called caliga, that was worn by the common centinels, and which was alfo ufually worn by him. As he approached Rome, the principal men of the fate went out in crowds to meet him. He received the congratulations of the people on every fide, all equally pleafed in being free from the eruelties of Tiberius, and in hoping new advantages from the virtues of his fucceffor.

Caligula feemed to take every precaution to imprefa them with the opinion of a happy change. Amidit the rejoicings of the multitude, he advanced mourning, with the dead body of Tiberius, which the foldiers brought to be burnt at Rume, according to the cuftom of that time. Upon his entrance into the city, he was received with new titles of honour by the fenate, whofe chief employment feemed now to be, the art of increafing their emperor's vanity. He was left co-heir with Gemellus, grandfon to 'liberius; but they fet afide the nomination, and declared Caligula fole fucceffor to the empire. The joy for this election was not confined to the narrow bounds of Italy; it fpread through the whole empire, and victims without number were facrificed upon the occafion. Some of the people, upon bis going into Campania, made vows for his return ; and fhostly after, when be fell fick, the multitudes crowded whole nights round his palace, and forue even devoted themfelves to death in cafe he recovered, fetting up bills of their refolutions in the freets. In this affection of the citizens, ftrangers themfelves feemed ainbitious of flaring. Artabanus, king of Parthia, fought the emperor's alliance with affiduity. He came to a perfonal conference with one of his legates; pafied the Euphrates, adored the Roman eagles, and kiffed the emperor's images; fo that the wbole world feemed combined to praife him for virtues which they luppofed him to polfers.

The new emperor at firf feemed extremely careful of ${ }^{388}$ the public favour ; and having performed the funeral fo-beging to lemanities of Tiberius, he haftened to the iflands of Pan-reign dataria and Pontia, to remore the afhes of his mother well and brothers, expofing himfelf to the dangers of tempef. tuous weather, to give a luftre to his piety. Having brought them to Rome, he inflituted annual folemuities in their honour, and ordered the month of September to be called Germanicus, in memary of his father.

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Rove.

Theie ceremo nies being over, he conierred the fane honours upen his grandmother Aitoria, which had before been given to Livia; and ordered all infurmations to be burnt, that any ways expofed the enemies of his family. He even refufed a paper that was offered him, tending to the difcovery of a confpiracy againft him; alleging, That he was confcious of notiing to deferse any nian's hatred, and therefore had no feats from tbeit machinat tions. He caufed the inititutions of Auguftus, which had been difufed in the reign of Liberius, to be ravived; undertook to reform many abufes in the ftate, and feverely punifhed corrupt governors. Among others, he banithed Pontius Pilate into Gaul, where this unjuft magiftrate afterwards put an end to his life by fuicide. He banifhed the fuintrix, or inventors of abominable recreations, from Rome ; attempted to reftore the ancient manaer of electing magiftrates by the fuffrages of the people; and gave them a free juriddicion, without any appeal to bimelf. Although the will of Tiberius was annulled by the fenate, and that of Livia fuppreffed by Tiberius, yet he caufed all their legacies to be punctua'ly paid ; and in order to make Gemellus amends for miling the crown, he cauled him to be elected Prin. ceps Juventutis, or princip: 1 of the youth. He seftored fome kings to their domiaions who had been unjuftly difpofiefted by Tiberius, and gave them the arrears of their revenues. And, that he might appear an encourager of every virtue, he ordered a female flave a large fum of money for enduring the molt exquifite torments without difoovering the fecrets of her mafter. So many concelitions, and fuch apparent virtue, could not fail of receiving juit applaufe. A chield of gold, bearing his image, was decreed to be carried annually to the Capitol, attended by the fenate and the fons of the nobility finging in praife of the emperor's virtues. It was likewhle ordained, that the day on which he was appointed to the empire thould be called Pubitia; implying, that when the came to govern, thie city received a new foundatiuc.

In icis than eight months all this flew of moderation and clemency vanifled; while furious paflions, unexampied avarice, and capricious cruelty, began to take their turn in ihis mind. As moft of the cruelties of Tiberius arole from fufpicion, fo moft of thofe committed by Caligula took rife from prodigality. Some indeed afext, toat a diforder which happened foon after his acceffipm to the empire, entirely difeompolit his under-ftanding- Hawever this may be, madnels itfelt could fearcely dictate cruelties more extrave, rant, or ineonfifteacies more ridiculous, than are imputed to him ; fome of them appear almoft beyond belief, as they feem entiraly suithout any motive to incite fuch barbarities.

Lice fitit object of his crielly was a perfon named $P_{f}$ ificus, who had devoted himfeif to death, in cafe the emoeror, who was then fick, flould recover. When Guligala's health was re-eftabliffied, he was informed of whe.zeal of Pulitus, and actually compelled bim to complutefin voll. This ridiculous devotee was thercfore kid round the city, by children, adomed with chaplets, andestaci put to dath, being thrumn headlong from the rampartif Another, nirmed Secundus, had vowed to fotht in the smphitheatre upon the fame orcafion. To ti4s he wai alfo compelled, the emperor himelf ch wofing to be a riestato of the combit. Howerver. be wis mgry fortumate than the former, being fo fucceinill as VoL. XVIII. Part I.

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to kill his ..Jverfary, by which he obtain. ${ }^{\text {a }}$ a $=.2$. . is from his row. Eremeflus kats the next who finc.ed from the tyrant's inl mmanity. The pretence againft him was, that he had withed the emperor might not recover, and that he had taken a countex-poifon to fecire lim from any lecret attempts againit his lifc. Calli, 1 aa ordered him to kill himielf; but as the u:afortunate youth was ignorant of the manner of doing it, the emperor's meffengers foon inftrueted him in the fatal leffon. Silenus, the em"eror's father-in-law, was the next that was put to death upon flight fulpicions; and Gercinus, a fenator of noted integrity, refufing to witnels fallely againf him, fhared his fate. After thefe followed a crowd of victims to the emperor's avarice or fufpicion. The pretext againft them was their enmity to his family; and in pronf of his accufations he produced thofe very memorials which but a while before be pretended to have burnt. Among the number of thofe who nere facrificed to his jealuuty, was Macto, the late favourite of Tiberius, and the perfon to whom Caligula owed his empire. He was accufed of many crimes, fome of which were common to the emperor as well as to him, and his death brought on the ruin of his whole family.

Thefe cruelties, however, only feemed the firf fruits of a mind naturally timid and fufpicious: his vanity and profufion foon gave rife to others which were more atrocious, as they fprung from lefs powerful motives. His pride firt began by afluming to himfelf the title of ruler, which was ufually granted only to kings. He would alfo bave taken the crown and diadem, had he not been advifed that he was already fuperior to all the monarchs of the world. Not long after, he aflumed divine honours, and gave himfelf the names of fuch divinities as he thought moft agreeable to his nature. For this purpofe be caufed the heads of the ftatues of Iupiter and fome other gods to be ftruck off, and his own to be put in their places. He frequently feated himfelf between Caftur and Pollux, and ordered all who came to their temple to worfhip, thould pay their adorations only to him; nay, at laft he altered their temple to the form of a portico, which he jrined to his palace, that the very gods, as he faid, night ferve him in the quality of porters.

He was not lefs notorious for the depravation of his appelites than for his ridiculous prefumptions. Neither perfon, place, nor fex, were obitacles to the indulgence of his unnatural lutis. There was fcartely a lady of any quality in Rome that efcaped his lewdnefs; and, indeed, fuch was the degeneracy of the times, that there were few ladies who did not think this difyrace an honour. He commitled incelt with his three filtors, and at public fealts they lay with their heads upon his bo'om by turns. Of thele he proftituted Livis and Agrippina to his vile compunions, and then brninhed them as adut. tereltes and confpirators againit his perfon. As for Drufillia, be took her from her hufland Longinus, and kept her as his wife. Her he loved fo affectionately, that, being fick, he appointed her as lieirefs of his empire and fortunc ; and flie happening to die before him, he made ber a goddefs. Nur did her example when living, appear more dangerons to the people than her divinity when de..d. To mourn for her death : was a crime, as ' flie uas become a goddefs; ant to rejoice fun her divinity was capital, becaufe the was dead. Nay, even fiPb
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## $\mathrm{R} O \mathrm{M} \quad[194] \quad \mathrm{R} O \quad \mathrm{M}$

Rome. lence itfelf was an unpardonable infenlibility, either of the emperor's lofs or his fifter's advancement. Thus he made his filter fubfurrient to his profit, as before he had done to his pleafure; railing vaft fums of money by granting pardons to fome, and by confifcating the goods of others. As to his marriages, whether he contracted thern with greater levity, or diffulved them with greater injuftice, is not eafy to determine. Being prefent at the nuptials of Livia Oreltilla with Pifo, as foon as the folemnity was over, he commanded her to be brought to him as his own wife, and then difniffed her in a few days. He foon after banifhed her upon fufpicion of cohabiting with her hufband after the was parted from him. He was enamoured of Lollia Paulina, upon a bare relation of her grandmother's beauty; and thereupon took her from her hufband, who commanded in Macedonia: notwithftanding which, he repudiated her as he had done the former, and likewife forbade her future marrying with any other. The wife who caught moft firmly upon his affections was Milonia Csefonis, whofe chief merit lay in her perfect acquaintance with all the alluring arts of her fex, for the was otherwife poffeffed neither of youth nor beauty. She continued with him during his reign ; and he loved her fo ridicuIoufly, that he fometimes fhowed her to his foldiers dreffed in armour, and fometimes to his companions flark naked.

But of all his vices, his prodigality was the moft remarkable, and that which in fome meafure gave rife to the reft. The luxuries of former emperors were fimplicity itfelf, when compared to thofe which he practifed. He contrived new ways of bathing, where the richeft oils and moft precious perfumes were exhaulted with the utmoft profufion. He found out difhes of immenfe value; and had even jewels, as we are teld, diffolved among his fauces. He fometimes had fervices of pure gold prefented before his guefts inftead of meat ; obferving, that a man fhould be an economif or an emperor.

For feveral days together he flung confiderable fums of money among the people. He ordered fhips of a prodigions bulk to be built of cedar, the fems of ivory inlaid with gold and jewels, the fails and tackling of various filks, while the decks were planted with the choiccft fruit trees, under the thade of which he often dined. Here, attended by all the minifters of his pleafures, the moft exqquifite fingers, and the molt beautiful youths, he coafted along the fhore of Campania with great fplendor. All his buildings feemed rather calculated to raife aftonifhment, than to anfwer the purpofes of utility. But the moft notorious inftance of his fruitlefs profufion was the vaft bridge at Puteoli, which he undertook in the third year of his reign. To fatisfy his defire of being mafter as well of tbe ocean as the land, he caufed an infinite number of chips to be faftened to each other, fo as to make a floating bridge from Baiæ to Puteoli, acrofs an arm of the fea three miles and a half broad. The flips being placed in two raws, in form of a crefcent, were fecured to each other with anchors, chains, and cables. Over thefe were laid vaft quantities of timber, and upon that earth, fo as to make the whole refemble one of the flreets of Fome. He next caufed feveral houfes to be built upon his new bridge, for the reception of himfelf and his attendants, into which frefh water was conveyed by pipes from land.

He then repaired thither with all his court, attended by prodigious throngs of people, who came from all parts to be fpectators of fuch an expenfive pageant. It was there that Caligula, adorned with all the magnificence of ealtern royalty, fitting on horfeback with a civic crown and Alexander's breaftplate, attended by the great officers of the army, and all the nobility of fome, entered at one end of the bridge, and with ridiculous importance rode to the other. At night, the number of torches and other illuminations with which this expenfive ftructure was adorned, eaft fuch a gleam as illuminated the whole bay, and all the neighbouring mountains. This feemed to give the weak emperor new caufe for exultation; boalting that he had turned night into day, as well as fea into land. The next morning he again rode over in a triumphal chariot, followed by a numerous train of charioteers, and all his foldiers in glittering armour. He then afcended a roftrum erected for the occafion, where he made a folemn oration in praife of the greatnefs of his enterprife, and the affiduity of his workmen and his army. He then diftributed rewards among his men, and a fplendid feaft fucceeded. In the midft of the entertainment many of his attendants were thrown into the fea; feveral fhips filled with fpectators were attacked and funk in an hoftile manner; and although the majority efcaped through the calmnefs of the weather, yet many were drowned; and fome who endeavoured to fave themfelves by climbing to the bridge, were ftruck down again by the emperor's command. The calmnefs of the fea during this pageant, which continued for two days, furnimed Caligula with frefh opportunities for boafting; being heard to fay, "that Neptune took care to keep the fea fmooth and ferene, merely out of reverence to him."

Expences like thefe, it may be naturally fuppofed, mut have exhaufted the moft unbounded wealib: in fact, after reigning about a year, Caligula found his revenues totally exhaufted; and a fortune of about $18,000,000$ of our money, which Tiberius had amaffed together, entirely fpent in extravagance and folly. Now, therefore, his prodigality put him upon new methods of fupplying the excheguer ; and as before his profufion, fo now his rapacity became boundlefs. He put in practice all kinds of rapine and extortion; while his principal ftudy feemed to be the inventing new impofts and illicit confifcations. Every thing was taxed, to the very wages of the meaneft tradefman. He caufed freemen to purchafe their freedom a fecond time; and poifoned many who had named him for their heir, to have the immediate poffeffion of their fortunes. He fet up a brothel in his own palace, by which he gained confiderable fums by all the methads of proflitution. He alfo kept a gaming-houfe, in which he himfelf prefided, fcrupling none of the meaneft tricks in order to advance his gains. On a certain occafion having had a run of ill luck, he faw two rich knights paffing through bis court; upon which he fuddenly rofe up, and caufing both to be apprehended, confilcated their eftates, and then joining his former companions, boaffed that he never had a bettcr throw in his life. Another time, wanting money for a flake, he went down and caufed feverab noblemen to be put to death; and then returning, told the company that they fat playing for trifles while he had won 60,000 lefterces at a caft.

Such infupportable and capricious cruelties produced many

## $\mathrm{R} O$ M $\left[\begin{array}{lll}195\end{array}\right] \quad \mathrm{H} O \mathrm{M}$

Rome- many fecret coafpiracies againft him; but thefe were for a while deferred, upon account of his intended expedition againft the Germans and Britons, which he undertook in the third year of his reign. For this pur-
Ridiculous expeditions
againd Bri- pofe, he canled numerous levies to be made in all parts tain and Germany. of the empire ; and talked with fo much refolution, that it was univerfally believed he would conquer all before him. His march perfectly indicated the inequality of his temper : fometimes it was fo rapid, that the cohorts were obliged to leave their ftandards bebind them; at other times it was fo flow, that it more refembled a pompous proceffion than a military expedition. In this difpolition he would caufe himfelf to be carried on eight men's flooulders, and order all the neighbouring cities to have their ftreets well fwept and watered to defend him from the duff. However, all thefe mighty preparations ended in nothing. Inftead of conquering Britain, he only gave refuge to one of its banifhed princes; and this he defcribed in a letter to the fenate, as taking poffeffion of the whole ifland. Inflead of conquering Germany, he only led lis army to the fea flore in Batavia. There difpofing his engines and warlike machines with great folemnity, and drawing up his men in order of battle, he went on board his galley, with which coafting along, be commanded his trumpets to found and the fignal to be given as if for an engagement ; upon which, his men having had previous orders, immediately fell to gathering the fhells that lay upon the flore into their helmets, terming them the $\int$ poils of the conquered occan, worthy of the palace and the capitol. After this doughty expedition, calling his army together as a general after victory, he harangued them in a pompous manner, and highly extolled their atchievements; and then diftributing money among them, difmiffed them with orders to be joyful, and congratulated them upon their riches. But that fuch exploits fhould not pafs without a memorial, he caufed a lofty tower to be erected by the feafide; and ordered the galleys in which he had put to fea to be conveyed to Rome in a great meafure by land.

After numberlefs inftances of folly and cruelty in this expedition, among which he had intentions of deftroying the whole army that had formerly mutinied under his father Germanicus, he began to think of a triumph. The fenate, who had long been the timid minifters of his pride and cruelty, immediately fet about confulting how to fatisfy his expectations. They confidered that a triumph would, even to himfelf, appear as a burlefque upon his expedition: they therefore decreed him only an ovation. Having come to this refolution, they fent him a deputation, informing him of the bonours granted him, and the decree, which was drawn up in terms of the moft extravagant adulation. However, their flattery was far from fatisfying his pride. He confidered their conduct rather as a diminution of his power, than an addition to his glory. He therefore ordered them, on pain of death, not to concern themfelves with his honours; and being met by their meffengers on the way, who invited him to come and pattnke of the preparations which the fenate had decreed, he informed them that he would come; and then laying his hand upon his fivord, added, that be would bring that alfo with him. In this manner, either quite omitting his triumph, or deferring it to nother time, he entered the city with only an ovation; while the fenate paffed
the whole day in acclamations in his praife, and fpeech- Rome. es filled with the $\mathrm{m}, \mathrm{A}^{2}$ excelfive flatery. This conduct in fome meafure ferved to reconcile him, and foon after their exceffive zeal in his caufe entirely gained his favour. For it happened that Protogenes, who was one of the moft intimate and the moft crucl of his favourites, coming into the houfe, was fawned upon by the whole body of the fenate, and particularly by Proculus. Whereupon Protogenes with a fierce look, alked how one who was fuch an enemy to the emperor could be fuch a friend to him? There needed no more to excite the fenate againit Proculus. They inftantly feized upon him, and violently tore him in pieces; plainly fhowing by their conduct, that tyramny in a prince produces cruelty in thofe whom he governs.-It was afier returning from this extravagant expedition, that he was waited upon by a deputation of the Jews of Alexandria, who came to deprecate his anger for not worfhipping his divinity as other nations had done. The emperor gave them a very ungracious reception, and would probably have deftroyed their countrymen if he had not foon after been cut off.

This affair of the Jews remained undecided during his reign; but it was at laft fettled by his fucceffor to their fatisfaction. It was upon this occafion that Philo made the following remarkable anfiver to his affiociates, who were terrified with apprehenfions of the emperor's indignation: " Fear nothing (cried he to them), Caligula, by declaring againft us, puts God on our fide."

The continuation of this horrid reign feemed to threaten univerfal calamity: however, it was but fhort. ${ }^{256}$ There had already been feveral confiriacies formed to rary frmdeftroy the tyrant, but without fuccefs. That which ed againft at laft fucceeded in delivering the world of this moniter, the empewas concerted under the influence of Caflius Cherea, tribune of the pretorian bands. This was a man of experienced courage, an ardent admirer of freedom, and confequently an enemy to tyrants. Befides the motives which he had in common with other men, he had received repeated infults from Caligula, who took all occafions of turning him into ridicule, and impeaching him of cowardice, merely becaufe he liad an effeminate voice. Whenever Cherea came to demand the watchword from the emperor, according to cuftom, he always gave him either Venus, Adonis, or fome fuch, implying effeminacy and foftnefs. He therefore fecretly imparted his defigns to feveral fenators and knights, whom he knew to have received perfonal injuries from Caligula, or to be apprehenfive of thofe to come. Amung thele was Valerius Afiaticus, whofe wife the emperor had debauched. Aunius Vincianus, who was fufpected of baving been in a former confpiracy, was now defi ous of really engaging in the firft defign that offered. Befides thefe, were Clemens the prefect ; and Califtus, whofe riches made him obnoxious to the tyrant's refentment.

While thefe were deliberating upon the moft certain and fpeedy method of defroying the tyrant, an unexpected incident gave new flrength to the confpiracy. Pompedius, a fenator of diffinetion, havirg been accufed before the emperor, of having fpoken of him with difrefpett, the informer cited one Quintilia, an actrefs, to confirm his accufation. Ouintiliz, howeter, was pofferfed of a d-gree of fortitude not eafily fourd. Whe denied the fact with obftinacy; and being put to the torture at the informer's requeft, hie bore the fevereft tor-

## $\mathrm{f} O \mathrm{M} \quad\left[\begin{array}{lll}1 y^{5} & 1 & \mathrm{R}\end{array} \mathrm{O} \quad \mathrm{M}\right.$

Rome. nients of the rack with unimaken conflancy. Fut what is moft remarkable ot ner refolution is, that fhe was acquainted with all the particulars of the confpiracy ; and thoug ${ }^{1}$ Cherea was appointed to pretide at her acrture, fhe rev-aled nothing: on the co: trary, when lhe was led to the rack, flie trod upon the toc of one of the conipiratoss, intimating at once her knowledge of the coinfederacy, and her own refulution nut to divulge it. In this manner the fuffered until all her limbs were dillucated; and in that deplorable ftate was prefented to the emperor, who ordered her a gratuity for what the had fuffered. Cherea could now no longer contain his indignation at being thus made the infitument of a tyrant's cruelty. He therefore propofed to the confpirators to attack hinn as he went to offer facrifices in the capitol, or while he was employed in the fecret pleafures of the palace. The reft, however, were of opinion, that it was beft to fall upon him when he flould be unattended; by which means they would be more certain of fuccefs. After \{everal deliberations, it was at laft refolved to attack him during the continuance of the Palatine games, which lafed four days; and to ftrike the blow when his guards thould have the leaft opportunity to defend him. In conferuence of this, the three firft days of the games paffed without affording that opportunity which was fo ardently defired. Chesea now, therefore, began to apprehend, that deferring the time of the confpiracy might be a mean to divu'ge it: he even began to dread, that the honour of killing the tyrant might fall to the lot of fome other perion more bold than himifelf. Wherefore, he at laft reloliced to defer the exceution of his plot only to the diy following, when Caligula fhould pals through a private gallery, to fome 'aths not far difitant from the palace.
who is
The laft day of the games was more fplendid than munderd. the reft; and Caligula feemed more fprightly and condefcending than ufual. He tork great amufement in fceing the people fcramble for the fruits and other rarities thrown by his order among them; and feemed no way apprehenfive of the plot formed for his deffruction. In the mean time, the confiracy began to tranfpire; and had he poffeffed any friends, it could not have failed of being difcovered. The confpirators waited a great part of the day with the mof extreme anxiety; and at one time Caligula feemed refolved to fpend the whole day without any refreftiment. This unexpected delay entirely exafperated Cherea; and had he not been reftrained, he would have gone and perpetrated his defign in the midat of all the people. Juft at that inHant, while he was yet hefitating what he fhould do, Afprenas, one of the confpirators, perfuaded Caligula to go to the bath and take fome fight refrefhment, in order to enjov the reft of the entertainment with greater relifh. The emperor therefore rifing up, the conSpirators ufed every precaution to keep off the throng, and to furround him, under pretence of greater affiduity. Upon entering into the little vaulted gallery that led to the bath, he was met by a band of Grecian children who had been inftructed in finging, and were come to perform in his prefence. Ho was once more therefore going to return into the theatre with them, had not the leader of the band excufed himfilf, as having a cold. This was the moment that Cherea feized to frike him to the ground; crying out, "Tyrant,
think apon this." Inmediately after, the other con fipirators rufhed in; and while the emperor continued to refit, crying out, that he was nut yet dead, they difmeched him with 30 wounds, in thee 29 h year of lis age, ater a thort reign of three years ten months and eight days. Wi:h him, his wife and infant daughter allo perihied; the one being ftabbed by a centurion, the other having its brains dashed out againt the wall. His coin was allu mel ed down by a dectee of the fenate; and fuch precautions were taken, that all feeraed willing, that neither his features nor his name might we tranfinitted to polterity.

As loon as the death of Caligula was made public, it Great conproduced the greatelt confufion in all parts of the city. fufion enThe confpirators, who only aimed at deftroying a ty-fues on his rant without atteuding to a fuccellor, had all lought fafety by retiring to private places. Some thought the report of the emperor's death was only an artifice of his own, to fee how his enemies wuald beh-ie Others averred that hee was titl alive, and actualiy in a fair way to recorer. In this interval of fufpente, the German guards finding it a convenient time to piliage, gave a loofe to their licentioumefs, under a pretence of revenging the emperor's death. All the contpirators and lenators that fell in their way received no mercy : Afprenas, Norbanus, and Anteias, were cat in pieces. However, they grew calm by degrees, and the fenate was pernuitted to ailembie, in order to deliberate upon what was neceffary to be done in the prefent cmergency.

In this deliberation, Satuminus, who was then conful, inifited much upon the bencfits of liberty; and talhed in raptures of Cherea's fortitude, alleging that it deferved the higheft reward. This was a language highly pleafing to the fetate. Liberty now became the favourite topic; and they even ventured to talk of extinguifhing the very name of Cæfar. Imprefled with this refolution, they brought over tome cohorts of the city to their fide, and beldly feized upon the Capitol. But it was now too late for home to regain her puiftine frcedom; the populace and the army oppofing thecir endeavours. The former were ftill mindful of their ancient hatred to the fenate ; and remembered the donations and public fpectacles of the emperors with regret. The latter were fenfible they could have no power but in a monarchy; and had fome hopes that the election of the emperor would fall to their deiermination. In this oppofition of interefts, and variety of opinions, chance leemed at laft to decide the fate of the empire. Some foldiers happening to run about the palace, difcovened Claudius, Çaligula's uncic, lusking in a fecret place, where he had hid himfelf through fear. Of this perfor age, who had hitherto been defpifed for his imbecility, they refolsed to make an emperor: and accordingly carried him upon their fhoulders to the camp, where they proclainced him at a time he expected nothing but death.

The fenate now, therefore, perceiving that forcecluatus alone was likely to fettle the fucceffion, were refolved nirde emto fubmit, fince they had no power to oppofe. Clau-perct. dius was the perfon moft ncarly allied to the late emperor, then living; being the nephew of Tiberius, and the uncle of Caligula. The fenate thetefore pafted a decree, confirming linr in the empire; and went foon after in a body, to render him their complave homage

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maze. Cherea was the firt who fell a facrifice to the k thon'y of this s.ew monarels. He met death with all the fortutide of a s zucient licman; defing to tie by $t^{\text {the }}$ fume ford with which he had killed Caligula. Luptis, his irie.:d, was put to death in the km ; and Sabinus, one of the confirators, laid vilient hand on himfelf.

Claadius was so years old when he began to reign. The complicated cilfeafes of his infancy had in fome meafure affected all the faculties bo $h$ of his body and mind. He was continued in a tate of pupillage much longer than was ufual at that time; and feemed, in every part of his life incapa le of e nduedi. g limtelf. Not that he was entirely delitute of uidertunding, fiace he had made a tolerable proficiency in the Greek atid La:in languages, and even wrote a hil cry of his own time; wish, however deftitute of other merit, was not contem tible in point of Ityle. Neverthelefs, with this Chare of e-ccition, he was unable to advance himielf in the Itite, and feemed utterly neglected until he was plac.d ail at once at the head of affairs. The commencenent of his reign gave the moft promifing hopes of a lampy continuance. He began by pafting an act of oblivioa fur all former words and actions, and difronulied all the cruel edicts of Caliguia. He forbade all perfons, upon fevere penalties, to facrifice to him as they had done to Caligula; was alfiduous in hearing and examining complaints; and frequently adminittered juffice in perfon; tempering by his mildnefs the feverity of the lavs. We are told of his bringing a woman to acknowledge her fon, by adjudging her to marry him. The tribunes of the people coming one day to attend him when be was on the tribunal, he courtcoufly excufed himfelf for not having romm for them to fit down. Wy this deportment he fo much gained the affections of the people, that upon a vague report of his being flain by furprife, they ran about the ftreets in the utmoft rage and confternation, with horrid imprecations againlt all fuch as were acceflary to his death; nor could they be appealed, until they were affured, with certainty, of his fafety. He took a more than ordinary care that Rome fhould be continually furplied with corn and provifions, fecuring the merchants againft pirates. He was not lefs affiduous in his buildings, in which he excelled almoft all that went before him. He conftracted a wonderful aquæduct, called after his own name, much furpsfing any other in Rome, either for workmanfhip or plentiful fupply. It brought water from 40 miles diftance, through great mountaine, and over do p valleys; being built on ftately arches, and furnithing the higheft parts of the city. He made alfo an haven at Oftia; a work of fuch immenfe exnence, that his fucceffors were unable to maintain it. But his greateft work of all was the draining of the lake Tucinus, which was the largeft in Italy, and bringing its water into the Tiber, in order to ftrengthen the current of that river. For effecting this, among other vaft difficulties, be mined through a mom tain of ftone three miles broad, and kept' 32,000 men employed for 11 years ingether.

To this folicitude for the internal adrantages of the flate, he added that of a watchlul cuardianhhip over the provinces. He rellored Judea to Herod Agrippa, which Caligula had taken from Herod Antipas, his u::cle, the man who had put John the Baptift to death,
and who was banihed by order of the prefent emperor. Rcme. Claudius alfo re.tured fuch princes to their kingdoms as had been unjufly difpolifed by his predecellors; tut deprived the Lycians and Rhodans of their liberty, ior having promoted infurrections, and crucified fome citizens of Rome.

He even undertook to gratify the people by foreign Misex)-diconqueit. The Britons, who had, for near 100 years, ton a of of been left in tole poffetfion of their own itiand, began Driair to feck the mediation of Rome, to quell their intenine commotions. The principal man who deired to fubject his native countty to the Koman dominion, was one Bericuc, who, by many arguments, perfuaded the emperor to make a delcent upon the illand, magnilying the advantages that would attend the conquell of i.. In purfuance of his advice, therefore, Plautius the piætor was ordexed to pafs over into Gaul, and make preparations for this great expedition. At firf, indeed, his loldiers feemed backward to cmbark; declaring, that they were tnwilling to make war beyond the limits of the world, for fo they judged Britain to be. However, they were at laft perfuaded to go; and he Britons, under the conduct of their king Cymobelinus, were feveral times overthrown. And thefe fuccefles foon after induced Claudius to go into Britain in perfon, upon pretence that the natives were ftill feditious, and had not delivered up fome Roman fugitives who had taken fhelter among them; but for a particular account of the expluits of the Romans in this illand, fee the article Englasi.

But though Claudius gave in the beginning of his Is induce reign the higheft hopes of a happy continuance, he hy has tafoon began to leffen his care for the public, and to vourites to commit to his favourites all the concerns of the empire. many acts This weak prince was unable to act but under the di- of cruc'sy. restion of others. The chief of his directors was his wife Meflalina: whofe name is almoft become a common appellation to women of abandoned characters, However, the was not lefs remarkable for her cruelties tban her lufts; as by her intrigues the dettroyed many of the moll illuftrious families of Rume. Subr rdinate to hor were the emperor's freedmen; Pallas, the treafurer; Narciflis, the fecretary of tlate; aud Calliflus, the matter of the requelts. Thefe entirely governed Claudius; fo that be was only left the fatigues of ceremony, while they were polletied of all the power of the fate.

It would be tedious to entmerate the vars us crtelties which thefe infidious advifers obliged the fecole emperor to commit : thoie againft his own family will fuffice. Appius Silanus, a peilon of great merit, who had been marricd to the emperor's mother-in-law, was put to death upon the fuggeffions of Meffalina. Atter him he flew both his fons-in-law, Silanus and Pompey, and his two nieces the Livias, one the daughter of Drufus, the other of Germanicus; and all without permiting thetn to plead in their defence, or even without affigning any caufe for his difpleafure. Great numbers of others fell a facrifice to the jealoufy of Melfalina and her minions; whs bore fo great a fway in the finte, that all offices, dignities, and governnechts, were entirely at their difpofsl. Every thing wis put to fale: they took money for pardons and penalties : and accumulated, by thefe mean-, fuch valt fums, that the we:l! of Crofus was confidered as nothing it con-

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 parion. One day, the emperor complaining that his exchequer was exhaufted, he was ludicroufly told, that it might be fufficiently replenifhed if his two freedmen would take him into partnerfhip. Still, however, during fuch corruption, he regarded his favourites with the higheft efteem, and even folicited the fenate to grant them peculiar marks of their approbation. Thefe diforders in the minifters of government did not fail to produce confpiracies againft the emperor. Statius Corrinus and Gallus Affinius formed a confpiraty againt him. Two knights, whofe names are not told us, privately combined to affaffinate him. But the revolt which gave him the greateft uneafinefs, and which was punifhed with the mon unrelenting feverity, was that of Camillus, his lieutenant-general in Dalmatia. This general, incited by many of the principal men of Rome, openly rebelled againf him, and affumed the title of emperor. Nothing could exceed the terrors of Claudius, upon being informed of this revolt: his nature and his crimes had difpofed him to be more cowardly than the reft of mankind ; fo that when Camillus commanded him by letters to relinquifh the empire, and retire to a private ftation, he feemed inclined to obey. However, his fears upon this occafion were foon removed: for the legions which had declared for Camillus being terrified by fome prodigies, fhortly after abandoned him ; fo that the man whom but five days before they had acknowledged as emperor, they now thought it no infamy to deftroy. The cruelty of Meffalina and her minions upon this occafion feemed to have no bounds. They fo wrought upon the emperor's fears and fufpicions, that numbers were executed without trial or proof; and farce any, even of thofe who were but fufpected, efcaped, unlefs by ranfoming their
293 Their infamous con. duct.

But fuch cruelties as the e , the favourites of the emperor endeavoured to eftablifi his and their own authority: but in order to increafe the neceffity of their affiftance, they laboured to augment the greatnefs of his terrers. He now became a prey to jealoufy and difquietude. Being one day in the temple, and finding a fword that was left there by accident, he convened the fena'e in a fright, and informed them of his danger. After this he never ventured to go to any feaft without being furrounded by his guards, nor would he fuffer any man to approach him without a previous fearch. Thus wholly employed by his ansiety for felfprefervation, he entirely left the care of the ftate to his favourites, who by degrees gave him a relifh for flaughter. From this time be feemed delighted with inflicting tortures; and on a certain occafion continued a whole day at the city Tibur, waiting for a hangman from Rome, that he might fealt his eyes with an execution in the manner of the ancients. Nor was he lefs regardlefs of the perfons he condemned, than cruel in the infliction of their puniffment. Such was his ex: treme ftupidity, that he would frequently invite thofe to fupper whon he had put to death but the day before; and often denied the having given orders for an execution, but a few hours after pronouncing fentence. Suetonius affures $u<$, that there were no lefs than 35 fenators, and above 300 knights, executed in his reign; and that fuch was lis unconcern in the millt of flaughter, that one of the tribunes bringing him an account of a certain fenator who was executed, he quite
forgot his offence, but calmly acquiefced in his punifhment.

In this manner was Claudius urged on by Meffalina to commit cruelties, which he confidered only as whole- gant lewd. fome feverities; while, in the mean time, the put no nefs of the bounds to her enormities. The impunity of her past emprefs vices only increafing her confidence to commit new, Meflalina. her debaucheries became every day more notorious, and her lewdnefs exceeded what had ever been feen at Rome. She caufed fome women of the firft quality to commit adultery in the prefence of their hufbands, and deftroyed fuch as refufed to comply. After appearing tor fome years infatiable in her defires, the at length fixed her affections upon Caius Silius, the moft beautiful youth in Rome. Her love for the young Roman feemed to amount even to madnefs. She obliged him to divorce his wife Junia Syllana, that fhe might entirely poffefs him herfelf. She ebliged him to accept of immenfe treafures and valuable prefents; cohabiting with him in the moft open manner, and treating him with the moft thamelefs familiarity. The very imperial ornaments were transferred to his houfe; and the emperor's flaves and attendants had orders to wait upon the adulterer. Nothing was wanting to complete the infolence of their conduct, but their being married together ; and this was foon after effected. They relied upon the emperor's imbecility for their fecurity, and only waited till he retired to Oltia to put their illjudged project in execution. In his abfence, they celebrated their nuptials with all the ceremonies and fplendor which attend the moft confident fecurity. Meffalina gave a loofe to her paffion, and appeared as a Bacchanalian with a thyrfus in her hand; while Silius affumed the character of Bacchus, his body being adorned with robes imitating ivy, and his legs covered with bufkins. A troop of fingers and dancers attended, who heightened the revel with the moft lafcivious fongs and the moft indecent attitudes. In the midit of this riot, one Valens, a buffoon, is faid to have climbed a tree; and being demanded what he faw, anfwered that he perceived a dreadful form coming from Oltia. What this fellow fpoke at random was actually at'that time in preparation. It feems that fome time before there had been a quarrel between Meffalina and Narciffus, the emperor's firft freedman. This fubtle minifter therefore defired nothing more than an opportunity of ruining the emprefs, and he judged this to be a moft favourable occafion. He firft made the difcovery by means of two concubines who attended the emperor, who were inftructed to inform him of Meflalina's marriage as the news of the day, while Narciffus himfelf ftepped in to confirm their information. Finding it operated upon the emperor's fears as he could wifh, he refolved to alarm him ftill more by a difcovery of all Meffalina's projects and attempts. He aggravated the danger, and urged the expediency of fpeedily punifhing the dilinquents. Claudius, quite terrified at fo unexpected a relation, fuppoicd the enemy were a!ready at his gates; and frequently interrupted his freedman, by afking if he was ftill matter of the empire. Leing affured that he yet had it in his power to continue fo, he refolved to go and punifs the affront offered to his dignity without delay. Nothing could exceed the confernation of Mcffalina and her thoughtlefs companions, upon being informed that the empe-

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ror was coming to difturb their feftivity. Every one retired in the utmort confufion. Silius was taken. Meffalina took fhelter in fome gardens which fhe had iately feized upon, having expelled Afaticus the true owner, and put him to death. From thence fle fent Britannicus, her oal:- fon by the emperor, with OAtavia her daughter, to intercede for her, and implore his mercy. She foon after followed them herfelf; but Narciffus had fo fortified the emperor againit her arts, and contrived fuch methods of diverting his attention from her defence, that the was obliged to return in defpair. Narcififus being thus far fucceesful, led Claudius to the houfe of the adulterer, there fhowing him the apartments adorned with the fpoils of his own palace; and then conducting him to the pretorian camp, revived his courage by giving him affurances of the readinefs of the foldiers to defend him. Having thus artfully wrought upon his fears and refentment, the wretched Silius was commanded to appear; who, making no defence, was inflantly put to death in the emperor's prefence. Several others fhared the fame fate; but Mefialina ftill flattered herfelf with hopes of pardon. She refolved to leave neither prayers nor tears unattempted to appeafe the emperor. She fometimes even gave a loofe to her refentment, and threatened her accufers with vengeance. Nor did the want ground for entertaining the moft favourable expectations. Claudius having returned from the execution of her paramour, and having allayed bis refentment in a banquet, began to relent. He now therefore commanded his attendants to apprife that miferable creature, meaning Meffalina, of his refoiution to hear her accufation the next day, and ordered her to be in readinefs with her defence. The permilition to defend herfelf would have been fatal to Narcifius; wherefore he rufhed out, and ordered the tribunes and centurions who were in readinefs to execute her immediately by the emperor's command. Claudius was iniormed of her death in the midf of his banquet ; but this infenfible idiot fhowed not the leaft appearance of emotion. He continued at table with his ufual tranquiility; and the day following, while he was fitting at dinner, he afked why Meffalina was ablent, as if he had totally forgotten her crimes and her punifhment.
Claudius being now a widower, declared publicly, that as he had hitherto been unfortunate in his marriages, he would remain fingle for the future, and that he would be contented to forfeit his life in cafe he broke his refolution. However, the refolutions of Clandius were but of fhort continuance. Having been accuftomed to live under the controul of women, his prefent freedom was become irkfome to him, and he was entirely unable to live without a director. His freedmen therefore perceiving his inclinations, refolved to procure him another wife; and, after fome deliberation, they fixed upon Agrippina, the daughter of his broThe empe- ther Germanicus. This woman was more pracifed in ror marries Agrippina. vise than even the furmer emprefs. Her cruelties were roore dangerous, as they were direfled with greater caution: fhe had poifoned her former hufband, to be at liberty to attend the calls of ambition; and, perfectly arquainted with all the infirmities of Claudius, only made ufe of his power to advance her own. However, as the late declaration of Claudius feemed to be an obfacle to his marrying again, perfons were fuborned to
move in the fenate, that he fhould be compelled to take a wife, as a matter of great importance to the commonwealth; and fome more determised flatterers than the rell left the houfe, as with a thorough refolution, that inftant, to conftrain him. When this decree paffed in the fenate, Claudius had fearce patience to contain limfelf a day before the celebration of bis nuptials. However, fuch was the deteftation in which the people in general held thefe inceituous matches, that though they were made lawful, yet only one of his tribunes, and one of his freedmen, followed his example.

Claudius baving now received a new director, fubmitted with more implicit obedience than in any former part of his reign. Agrippina's chief aims were to gain the fucceffion in farour of her own fon Nero, and to fet afide the claims of young Britannicus, fon to the emperor and Mefialina. For this purpofe fhe married Nero to the emperor's daughter Octavia, a few days after her own marriage. Not long after this, the urged the emperor to frengthen the fucceffion, in imitation of his predeceffors, by making a new adoption; and caufed him take in her fon Nero, in fome meafure to divide the fatigues of government. Her next care was to increafe her fon's popularity, by giving him Seneca for a tutor. This excellent man, by birth a Spaniard, had been banithed by Claudius, upon the falle teftimony of Meflalina, who had acculed him of adultery with Julia the emperor's niece. The people loved and admired him for his genius, but ftill more for his frict morality ; and a part of his reputation neceffarily devolved to his pupil. This fubtle woman was not lefs affiduous in pretending the utmoft affection for Britannicus; whom, however, fhe refolved in a proper time to deftroy : but her jealouly was not confined to this child only; the, fhortly after her acceffion, procured the deaths of feveral ladies who had been her rivals in the emperor's affections. She difplaced the captains of the guard, and appointed Burrhus to that command ; a perfon of great military knowledge, and ftrongly attached to her interefts. From that time the took lefs pains to difguife her power, and frequently entered the Capitol in a chariot; a privilege which none before were allowed, except of the facerdotal order.

In the 12th year of this monarch's reign, fhe perfuaded him to reftore liberty to the Rhodians, of which he had deprived them fome years before; and to remit the taxes of the city Ilium, as having been the progenitors of iome. Her defign in this was to increaie the popularity of Nero, sho pleaded the caule of buth cities with great approbation. Thus did this ambitious woman take every ftep to aggrandize her fon, and was even contented to become hateful herfelf to the public, merely to increafe his popularity.

Such a very immoderate abule of her power ferved at lait to awaken the emperor's fufpicions. Agrippina's imperious temper began to grow infupportable to him and he was heard to declare, when heated with wine, that it was his fate to fuffer the diforders of his wives, and to be their executioner. This expreffion funk deep on her mind, and engazed all her faculties to prevent the blow: Her firt care was to remove Narciffus, whom the hated upon many acccunts, but par:icularly for his attachment to Claudius. This minifler, for fume time, oppofed her defigns; but at lengith theught fit to retire, by a voluntary exile, into Campa-

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nia. Thé unlappy emperor, thus expo 'ed to all the machinations of his infidious confort, feemed entirely regardlefs of the danger that threatened his deltruction. His affeetion for Britannicus was perceived every day to increafe, which ferved alfo to increafe the vigiirctand jealoufy of Agrippina. She now, therefore, refolved not to defer a crime which the had meditated a long while before; namely, that of poifoning her hufband. She for fome time, however, debated with herfelf in what manner fhe fhould adminifter the poifon; as fie feared too ftrong a dofe would difcover her treachery, and one too weak might fail of its effects. At length the determined upon a poifon of fingular efficacy to deffroy his intellects, and yet not fuddenly to terminate his life. As fhe had been long converfant in this horrid practice, the applied to a woman called Locufa, notorious for affifting on fuch occafions. The poifon was given to the emperor among mufhrooms, a dilh he was particularly fond of. Shortly after having eaten, he dropped down infenfible; but this caufed no alarm, as it was wfual with him to fit eating till he had ftupified all his faculties, and was obliged to be carried off to his bed from the table. However, his conftitution feemed to overcome the effects of his potion, when Agrippina refolved to make fure of him: wherefore fle directed a wretched phyfician, who was her creature, to thruft a poifoned feather down his throat, under pretence of making him vomit ; and thus difpatched him.

The reign of this emperor, feeble and impotent as he was, produced no great calamities in the flate, fince his cruelties were chiefly levelled at thofe about his perfon. The liit of the inhabitants of Rome at this time amounted to fix millions eight hundred and forty-four thoufand fouls; a number little inferior to all the people of England at this day. The general character of the times was that of corruption and luxury : but the military firit of Rome, though much relaxed from its former feverity, ftill comtinued to ave mankind; and though during this reign, the empire might be juftly faid to be without a head, yet the terror of the Roman name alone kept the nations in obedience.

Claudius being defroyed, Agrippina took every precaution to.conceal his death from the public, until fhe had fettled ber meafures for fecuring the fucceffion. A ftrong guard was placed at all the avenues of the palace, while the amufed the people with various reports; at one time giving out that he was ftill alive; at another, that he was recovering. In the meanwhile, fie made fure of the perfon of young Britannicus, under a pretence of affection for him. Like one overcome with the extremity of her grief, fhe held the child in her arms, calling hins the dear inage of his father, and thus preventing his efcape. She ufed the fame precautions with regard to his fiffers, Oeavia and Antonia; and even ordered an entertainment in the palace,
a.s as if to amufe the emperor. At laft, when all things
were adjufted, the palace gates were (inrown open, and Nero, accompanied by Burrhus, prefect of the Pratorian guards, iffued to receive the congratulations of the people and the army. The cchorts then attending, proclaimed him with the louleft acclamations, though not without making fome itquiries after Britandicus. He wac carried in a chariot to the reft of the army; wherein having made a fpeech proper to the oscafion,
and promifing them a donation, in the manner of his predeceffors, he was declared emizeror by the army, the fenate, and the people.

Nero's firft care was, to florw all poffible reffect to the deceafed emperor, in order to cover the guilt of his death. His oblequies were performed with a pomp equal to that of Augultus : the young emperor pronounced his funeral oration, and he was canonized among the gods. The funeral oratium, though fpoken by Nero, was drawn up by Seneca; and it was remarked, that this was the firlt time a Roman emperor needed the affinance of another's eloquence.

Nero, though but 17 years of age, began his reiga with the general approbation of mankind. As he owed the empire to Agrippina, fo in the beginning he fubmitted to her directions with the moft implicit obedience. On her part, fhe feemed refolved on governing with her natural ferocity, and confidered her private animofities as the only rule to guide her in public juftice. Immediately after the deaih of Claudius, flie caufed Silanus, the pro-conful of Afia, to be affafinated upon very flight fufpicions, and without ever acquainting the emperor with her defign. The next object of her refentment was Narciffus, the late emperor's favourite; a man equally notorious for the greatnefs of bis wealth and the number of his crimes. He was obliged to put an end to his life by Agrippina's order, though Nero refufed his confent.
This bloody onfet would have been followed by His excelmany feverities of the fame nature, had not Seneca tent admiand Burrhus, the émperor's tutor and general, oppo-niftration fed. Thefe worthy men, alchough they owed their for five rife to the emprefs, were above being the inftruments ${ }^{5}$ of her cruelty. They, therefore, combined together in an oppofition; and gaining the young emperor on their fide, formed a plan of power, at once the moft merciful and wile. The beginning of this monarch's reign, while he continued to act by their counfels, has always been confidered as a model for fucceeding princes to govern by. The famous emperor Trajian ufcd to fay, "That for the frit five years of this prince all other governments came flort of his." In fact, the young monarch knew fo well how to conceal his innate depravity, that his neareit friends could fcarcely perceive his virtues to be but aflumed. He appeared juf, liberal, and humane. When a warrant for the execution of a criminal was brought to him to be figned, he was heard to cry out, with feeming concern, "Would to Heaven that I had never leamed to write !" The fenate, upon a certain occafion, giving hims their applaufe for the regularity and juftice of his adminiffration; he replied with fingular modefty, "' That they fhould defer their thanks till he had deferved them." His condefcenfion and affability were not lefs than his other virtues; fo that the Romanis began to think, that the clemency of this prince would cumpenfate for the tyranny of his predeceffors.

In the mean time, Agrippina, who was excluded from any thare in goverimont, attempted, by every poffible method, to maintain her declining power. Furceiving that her fon had fallen in love with a freedwoman, named Alile, ard direading the influence of a conculine, fle tried every art to prevent his growing I flion. Flowiver, in fo corrupt a court, it was no difficult maiter fur the emperor to find other confi-

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Rome. $\underbrace{}_{300}$ He provokes his mother.

Poifors
His bruther
dan!s andy to affitt him in his withes. The gratification of his pallion, therefore, in this inflance, only ferved to increafe his hatred for the emprefs. Nor was i: lung before he gave evident marks of his difubedios:c, by difplacing Pallas her chief favourite. It wis upon this occalion that the firf perceived the tota! declenfion of her authority; which threw her into the moit ungovemable fury. In order to give terror to l.er rage, the proclaimed that Bri annicus, the real heir to the throne, was ilill living, ans in a condition to receive bis father's empire, which was now pofleined by ain u'uaper. She threatened to go to the camp, and there expofe his bafenefs and her own, ifrukirg all the furies to her affitunce. Thefe menaces lerved to ainm the fufpicions of Nero; who, thourh apparently ga ded by his gorcmors, yet had begun to give way to his natural depravity. He, therefore, determined upori the death of Brtarnicus, and contrived to have him poi,oned at a puilic banquct. Argippina, however, th:ll re:mined her nat.iral ferocity : the took eve.y opprtunty of ooligi g and Ratherig the triunnes and centurions; the be.ped up tre..fures with a rapacity beyand her natural avarice; all her attions feemed calculat: d o raife a faction, and make her clif formidable to the emperor. Wijereupon Nero commanded her German grard to be :aken frosn her, and obliged ber to lodge unt of the pai.ce. H. aso foroade parti-ular perfons to vilit her, a id went i.infelf bat warely and ce.em aiovlly to pay he his reffects. S. e num; therefure, began to find, hat, with the emperor's laveur, fhe had lo:l the a midity of her friends. She was even accufed by 3 ? ? una of csifpiring again?t her fon, aad of defigning to marry PI utius, a perion defcelided from Augufts, and ming him emperor. A fburt tinse afier, Pailas, her faycurise, together with Burrhus, were arraigned for a fimilar offence, and intending to fet up Cornelius Sylla. Thefe :rformations teirg proved void of a:iy foundati-r, the informers were baniked; a panihment which was confidered as very inadequaie to the gratnefs of the uffence.

As Vero increafed in years, his crimes feemed to increafe in equal proportion. He row began to frys a pleafure in running about the city by night, difguifed like a dawe. In this vile habit he entered taverns and brothels, attended by the lewd minifters of his pleafures, attempting the lives of fuch as oppofed him, and freguently endangering his ormn. In imitation of the em eeror's example, nambers of profligate young men infeited the firects likewife; fo that every night the ci'y was filled with tumult and diforder. However, the people bore a!? thefe levities, which they alcribed to the emperor's youth, with patience, having occafion every day to evperience his liberality, and having allo been gratified by the abolition of many of their taxes. The provinces alifo were no way affected by thefe riots; for except diffurbaizes on the fide of the Parthians, which were foon fupprefed, they enjoyed the moth perfeet tranquilli y.

But there fenfualities, which, for the firf four years of his reion, produced but few diforders, in the fifth became alarming. He firit began to tranfgrefs the bounds of decency, by publiely abandoning OCtavia, his pre?ent wife, and then by taking Poppea, the wife of his favourite Otho, a woman more celebrated for

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her beauty than her virtues. This was another grating circumflance to Agrippina, who vainly ufed all her intereft to difgrace Poppea, and reinftate herfelf in her fon's loft favour. Hiltorians affert, that fie even offered to fatisfy his paffion herfelf by an inceltuous corapliance ; and that, had not Seneca interpofed, the fon vould have joined in the mother's crime. This, however, doss not feem probable, fince we find Puppea victorions, loon after, in the contention of interelts; and at laft impelling Nero to parricide, to latisfy her revenge. Slie began her arts by urging him to divorce his prefent wife, and marry hericlif: the reproached him as a pupil, who wanted not only power over others, but liberty to dircet himfelf. She infinuated the dangerous deligns of Agrippina; and, by degrees, accultomed his mind to reflect on parricide without horror. His cruelties ag ii .A his mother began rather by varicus circumflances of pety malice than by any domnright in. jury. He encouszged feveral perions to teafe her with lit: ious fuits; and emrloyed fome of the meaneth of the pe ple to fing fativical fongs againl her, utder her "hindows: but, at laft, firding thefe incffectual in bre: $\begin{aligned} & \text { ing } \\ & \text { her fpitit, he refolved on putting her to death. }\end{aligned}$ His fit ${ }^{2}$ attompt was by puiforl ; but this, thou:h twice repeated, proved ineffectual, as fhe had fortified her conftution againft it by antidotes. This failing, a fhip was contrived in fo srtificial a manrer as to fall to pieces in the weter; on board of which flee was irsineai i, fail to the ceafts of Calabria. IJowever, this plot was as ineffectual as the former: the maniners, not being apprifed of the fecret, diffurbed each other's operations; fo that the flip not finking ac ecaidily as was expected, Agrippina found means to continue fwimming, till f.e was taken up by fome trading veffels palling that way". Nero finding all his maclinations were diffovered, refolved to throw off the nasak, and put her cpenly to death, without furtlier delay. He therefore cauicd a report to be foread, that the had confpired agnint him, and that a poniard was dropped at his feet Ly one who preteuded a command from Agrippina to affafinate tim. In confequence of this, he applied to his governors Seneca and Burrhus, for their advice how to ack, and their affittance in ridding him of his fears. Things were now come to fuch a crific, that no middle way could be taken; and either Nero or Agrippina was to fall. Seneca, therefore, kept a profound filence; while Earrhus, with more refolution, refufed to be perpetrator of fo great a crime; alleging, that the ariny was entitely devoted to all the oeficendants of Cxfar, and would never be brought to imbrue their hands in the blood of any of his family. In this cmbarraffmeat, Aricetus, the contriver of the thip above-mentioned, offered his fervices; which Nero accepted with the greaseft joy, crying out, "That then was the firft moment he ever found himfelf an cmperor." This freedman, thereforc, taking with him a body of foldiers, furrounded the houfe of Agrippina, and then forced open the doors. The executioners having difpatched Cautes his her with feveral wounds, left her dead on the couch, and mother to went to inform Nero of what they had done. Som be murderwent to inform Nero of what they had done. Some ed. hiftorians fay, that Nero came immediately to view the body; that he continued to gaze upon it with pleafure, and ended his horrid furvey, by coolly obferving, that he never thought bis mother had been fo handfome.C Howerer

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Folly and meannes of Nero.

However this be, he vindicated his conduct next day to the fenate; who not only excufed, but applauded his impiety.

All the bounds of virtue being thus broken down, Nero now gave a loofe to his appetites, that were not only fordid but inhuman. There feemed an odd contralt in his difpofition; for while he practiled cruelties which were fufficient to make the mind fhudder with horror, he was fond of thofe amufing arts that foften and refine the heart. He was particularly addicted, even from childhood, to mufic, and not totally ignorant of poetry. But chariot-driving was his favourite purfuit. He never miffed the circus, when chariot-races were to be exhibited there; appearing at firf privately, and foon after publicly ; till at laft, his paffion increaling by indulgence, he was not content with being merely a fpectator, but refolved to become one of the principal performers. His governors, however, did all in their power to reftrain this perverted ambition; but finding him refolute, they inclofed a fpace of ground in the valley of the Vatican, where he firt exhibited only to fome chofen fpectators, but fhortly after invited the whole town. The praifes of his flattering fubjects only fimulated him ftill more to thefe unbecoming purfuits; fo that he now refolved to affume a new character, and to appear as a firger upon the ftage.

His paffion for mufic, as was oblerved, was no lels natural to him than the former ; but as it was lefs manly, fo he endeavoured to defend it by the example of fome of the moft celebrated men, who practifed it with the fame fondnefs. He had been inffructed in the principles of this art from his elyddhood; and upon his advancement to the empire, he had put himfelf under the moft celebrated mafers. He patiently fubmitted to their infructions, and ufed all thofe methods which fingers practife, cither to mend the voice, or improve its volubility. Yet, notrithftanding all his affiduity, his voice was but a wretched one, being both feeble and unpleafant. However, he was refolved to produce it to the public, fuch as it was; for tlattery, he knew, would fupply every deficiency. His firt public appearance was at games of his own inllitution, called jwweniles; where be advanced upon the ftage, tuning his inftrument to his voice with great appearance of fkill. A group of tribunes and centurions attended behind him; while his old governor Burrhus ftood by his hopeful pupil, with indignation in his countenance, and praifes on his lips.

He was defirous alfo of becoming a poet: but he was unwilling to undergo the pain of ftudy, which a proficiency in that art requires; he was defirous of being a poet ready made. For this purpole, he got together feveral perfons, who were confidered as great wits at court, though but very little known as fuch to the public. Thefe attended him with verfes which they had compofed at home, or which they blabbed out exteraporaneonfly; and the whote of their compcitions teing tacked together, by his direction, was called a procm. Nor was be without his philofophers alfu; he took a pleafure in hearing their debates after fupper, but he heard them merely for his amufement.

Furnifhed with fuch talents as theie for giving pleafure, he was refolved to make the tour of his em pire, and give the moft public diflay of his abilities wherever he came. The place of his firft exlibition,
upon leaving Rome, was Naples. The crowds there were fo great, and the curiofity of the people fo earneft in licaring lim, that they did not perceive an earthquake that happened while he was finging. His defire of gaining the fuperiority over the other thors was truly ridiculous: he made intereft with his juidges, rcviled his competitors, formed private factions to fupport him, all in imitation of thofe who got their livelihood upon the llage. While he continued to perform, no man was permitted to depart from the theatre, upon any pretence whatfocver. Some were fo fatigued with hearing bim, that they leaped privately from the walls, or pretended to fall into fainting fits, in order to be carried ont. Nay, it is faid, that feveral women were delivered in the theatre. Soldiers were placed in feveral parts to obferve the locks and gellures of the fpectaters, either to direct them where to point their applaufe, or reffrain their difpleafure. An old fenator, named $I_{\text {ej- }}$ pafian, afterwards emperor, happening to fall afleep up. oll one of thefe occafions, very narrowly efcaped with his life.

After being fatigued with the praifes of his countrymen, Nero refolved upon going over into Greece, to receive new theatrical honours. The occafion was this. The cities of Greece had made a law to fend him the crowns from all the games; and deputies were accordingly difpatched with this (to him) important ernbafly. As he one day entertained them at his table in the moft fumptuous manner, and converfed with them with the utmoft familiarity, they intreated to hear him fing. Upon his complying, the artful Greeks teftified all the marks of ecflafy and rapture. Applaufes fo warm were peculiarly pleafing to Nero: he could not refrain from crying out, That the Greeks alone were worthy to hear bim; and accordingly prepared without delay to go into Greece, where he fpent the whole year enfuing. In this journey, his retinue refembled an army in number; but it was only compufed of fingers, dancers, taylors, and other attendants upun the theatre. He pafted over all Greece, and exhibited at all their games, which he ordered to be celebrated in one year. At the Olympic games he refolved to fhow the people fomething extraordinary ; wherefore; he drove a chariot with 10 horfcs; but being unable to fuftain the violence of the motion, he was driven from his feat. The fpectators, however, gave their unanimous applaufe, and he was crowned as conqueror. In this manner he obtained the prize at the Ithmian, Pythian, and Nemean games. The Greeks were not fparing of their crowns; he obtained 1800 of them. An unfortunate finger happened to oppole him on one of there occafions, and exerted all the powers of his ant, which ${ }_{2}$ it appears, were prodigious. But he feems to have been a better finger than a politician; for Nero ordered him to be killed on the fpot. Upon his return from Greece, he entered Naples, through a breach in the walls of the city, as was cuftomary with thole who were conquerors in the Olympic games. But all the fplendor of his return was referved for his entry into Rome. There he appeared feated in the chariot of Auguftus, drefied in robes of purple, and crommed with nild olive, which was the Olympic garland. He bore in his hand the Pythian crown, and had 1:c0 more carried before him.Befide him fat one Diodorus, a mufician; and behind lim followes a band of fingers, as numerous as a le-

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Rome. gion, whio fung in honour of his vidorics. The fenate, the knights, and the people, attended this puerile pageant, filling the air with their acclamations. The whole city was illuminated, every ftreet fmoked with incenfe; wherever he paffed, viatims were lain; the pavement was firewed with faffion, while garlands of flowers, ribbons, fowls, and pafties, (for to we are told), were flowered down upon him from the windows as he paffed along. So many honours only inflamed his defire of acquiring new ; he at lalt began to take leffons in wreftling ; willing to imitate Hercules in ftrength, as he bad rivalled $\Lambda$ pollo in activity. He alfo caufed a lion of pafteboard to be made with great aut, againtt which he undaun:edly appeared in the theatre, and iltruck it down with a blow of his club.
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Byrning of Rame.
with all the houfes adjoining to it. However, Nero, af- Rome. fecting compafion for the multitude, thus vagabond and bereft of their dwellings, laid open the field of Mars, and all the great edinices erected there by Agrippa, and even his own gardens. He likewife caufed tabernacles to be reared in hatte for the reception of the forlorn populace ; from Otlia, too, and the neighbouring cities, were brought, by his orders, all forts of furniture and neceffaries, and the price of corn was comi derably leffened. But thele bounties, however generous and popular, were beftowed in vain, becaule a reporz was fpresd abroad, that, during the time of this gencral conlagration, he mounted his domeltic flage, and fung the deftruction of '1roy, comparing the prefent, defolation to the celebrated calamities of antiquily. A: length, on the fixth day, the fury of the flimes was ftopped at the foot of Mount Efquiline, by leveling with the ground an infinite number of buildings; fo that the fire found nothing to encounter but the open fields and empty air.

But farce had the late alarm ceafed, when the fire broke out anew with frefh rage, but in places more wide and fpacious; whence fewer perfons were deftroycd, but more temples and public porticoes were overthrown. As this fecond confagration broke out in cer tain buldings belonging to Tigcllinus, they were bot:i generally afcribed to Nero; and it was conjectured, that, by deltroying the old city, he aimed at the glory of building a new one, and calling it by his name. Of the fourteen quarters into which Rome was divide!!, four remained entire, three were laid in afhes, and, in the $f t$ ven others, there remained here and there a few houf , miferably thattered, and half confumed. Among the many ancient and itate!y edifices, which the rage of the flames utterly confumed, Tacitus reckons the temple dedicated by Servius Tullius to the Moon; the temple and great altar confectated by Evander to Hercules; the chapel vowed by Romulus to Jupiter Stator; the coust of Numa, with the temple of Vella, and in it the tutelar gods peculiar to the Romane, In the famfate were invo'ved the ineftimable treafures acquired by fo many victories, the wonderful works of the bert painters and fculptors of Greece, and, what is ftill more to be lamented, the ancient writings of the celebrated authors, till then preferved perfectly entire. It was obferved, that the fire began the fame day on which the Gruls, having formerly taken the city, burnt it to the ground.

Upon the ruins of the demolifhed city, Nero found-Neto's golcd a palace, which he called his golden houfe; thoughden pe a.e. it was not fo much admired on account of an immente Irolusion of gold, precious llones, and other ineltimable ornaments, as for its vall extent, containing fpacious ficlds, large wilderneffes, artificial lakes, thick woods, orchards, vineyards, hills, groves, \&e. The entrance of this flately edifice was wisle enough to reccive a coloffus, reprefenting Nero, 120 feet high: the galluies, which confitted of three rows of tall pillars, were eich a full mile in length ; the lakes were encompafle d with magnificent buildings, in the manner of cilies; and the woods focked with all manner of wild beafs. The houf itfelf was tiled with geld: the walls were covered with the fame motal, and richly adomen wilh pr-cious thones and mother of pearl, which in thofe dy. in wiucd above gold: tie timber-work and ceit-

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Rame. ings of the zooms were inlaid with gold and ivory: the roof of one of the banqueting-rooms refembled the firmament both in its figure and motion, turning inceffantly about night and day, and thowering all forts of fiveet waterc. When this magnificent firucture was finifhed, Nero approved of it only fo far as to fay, that at length he began to lodge like a man. Pliny tells us, that this palace extended quite round the city. Nero, it leems, did not finih it ; for the firlt or:ler Utho figned was, as we read in Suetonius, for fifty millions of feflerces to be employed in perfecting the golden palace which Nero had begun.
Endertakes The projectors of the plan were Scverus and Celer, to cat a twa bold and enterprifing men, who foon after put the canal from emperor upon a ftill more expenfive and arduous enterAvernus to the Tiber. taking, namely, that of cutting a canal through hard

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Ro:ce re-
built.
rocks and Iteep mountains, from the lake Avernus to the mouth of the Tiber, 160 miles in length, and of fuch breadth that two galleys of five ranks of oars might eafily pals abreaft. His view in this was to open a communication between Rome and Campania, free from the troubles and dangers of the fea; for this very year, a great number of veffels laden with corn were flupwrecked at Mifenum, the pilots choofing rather to venture out in a violent florm, than not to arrive at the time they were expected by Nero. For the executing of this great undertaking, the emperor ordered the prifoners from all parts to be tranfported into Italy; and fuch as were convicted, whatever their crimes were, to be condemned only to his works. Nero, who undertook nothing with more ardour and readinefs than what was deemed impollible, expended incredible fums in this sah undertaking, and exerted all his might to cut through the mountains adjoining to the lake Avemus; but, not being able to remove by art the obilacles of nature, he was in the end obliged to drop the enterpuife.

The ground that was not taken $u_{p}$ by the foundations of Nero's own palace, he affigned for houtes, which were not placed, as after the burning of the city by the Gauls, at random, and without order; but the freets were land out regularly, fpacious and itraight; the edifices reitrained to a certain height, perliaps of To feet, according to the plan of Aupulी.is; the courts were widened; and to all the great houfes which flood by themlelves, and were called ites, large porticoes were added, which Nero engaged to raile at his own expence, and to deliser to each proprietnt the fquares about them clear from all rubbifh. He likewife promifed rewards according to every man's rank and fubftance; and fixed a day for the performance of his promife, on condition that againtt that day their feveral houfes and palaces were finifhed. He moreover made the following wife regulations to obviate fuch a dreadful calamity for the future ; to wit, That the new buildings flould be railed to a certain height without timber; that they fhould be arched with flone from the quarries of Gabii and Alba, which were proof againf fire; that over the commen Prings, which were diverted by private men for their own ufes, overfeers fhould be placed to prevent that abufe ; that every citizen fhou'd have ready in his houfe fome machine proper to extinguifh the fire; that no wall foould be common to two l.oufes, but every houfe be inclofed within its own pecu-
liar walls, Scc. Thus the city in a flort time cofecat Roment of its athes with new lulke, and more beautiful than ever. Huwever, fome believed, that the ancient form. was more conducive to health, the rays of the fun being hardly felt on account of the narrownefs of the ftrcets, and the height of the buildings, whereas now there was no fhelter, againit the foorching heat. We are told, that Nero deligned to extend the walls to Oftia, and to bring from thence by a canal the feainto the city.

The emperor ufed every art to throw the odium of this conflagration upon the Chriftians, who were at that time gaining ground in Rome. Nothing could be more dreadful than the peifecution raifed againft them upon this falfe accufation, of which an account is given under the article Ecclefigfical HISTOR T. Hitherto, The cons however, the citizens of Rome feemed comparatively ex-racy of Pifo. empted from his cruelties, which chietly fell upon ftrongers and his nearelt connections ; but a confpiracy formed againtt him by Pifo, a men of great power and integrity, which was prematurely difcovered, opened a new train of fulpicions that deftroyed many of the principal families in Rome. This confpiracy, in which feveral of the chief men of the city were concerned, was firit dilcovered by the indifcreet zeal of a woman named Fpicharis, ubo, by fome means now unknown, had been let into the plot, which the revealed to Volufius, a tiibune, in order to prevail upon him to be an accomplice. Volufius, infead of coming into her defign, went and difcovered what he had learned to Nero, who immediatcly put Epicharis in prifon. Soon after, a freednaen belonging to Scanius, one of the accomplices, nade it farther difcovery. The confpirators were examined apart ; and as their teftimonics difficed, they were put to the torture. Natalis was the firft who made a cons fcfion of his own guilt and that of many others. Scesnius gave a lift of the confpirators atill more ample. Lucan, the poet, was amongft the number ; and he, like the relt, in order to fave himfelf, fill fatther eularged the catalogue, naming, among others, Autilia, his own mother. Epicharis was now, therefore, again called upon and put to the torture; but her fortitude vas proof agrainft all the tyrant's ciuelty; neither fcourging nor Lurning, nor all the malicious methods ufed by the executioners, could extort the fmalleft confefficn. She was therefrre 1 manded to prifon, with orders to have lier tertures renewed the day following. In the meantime, fle fourd an oppottunity of ftrangling herfelf with her handkerchief, by hanging it againt the back of her chair. On the difecveries already nade, Pifo, Latemans, Fennius Fufus, Subrius Flavius, Sulpicius At er, Veftinus the conful, and numberlef's others, were all executed withuut mercy. But the two moft remarkable perfonages who fell on this occation were Seneca the philofopher, and Lucan the poct, who nas his nephew: It is not certainly known whether. Seneca was really concerned in this confpiracy or not,This great man had for fome time perceived the outrageous conduct of his pupil ; and, finding himfelf incapable of controuling his favage difpofition, had retired from court into folitude and privacy. However, his retreat did not now protect him; for Nero, either having real teflimony againft him, or elfe hating him for his virtues, fent a tribunc to inform him that he was
fufpected

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Rome. fuffected as an accomplice, and foon after fent him an order to put himielf to death, with which he complied.

In this reanner twas the whole city filled with daughter, and frightfa! inftances of treachery. No matter was fecure from the venge:nce of his flaras, nor even parents from the bafer attempts of their children. Not only throughout Rome, but the whole country round, bodies of foldiers wree een in piorfuit of the fufpected and the guilty. W"bole crowd's of wretches loaded with chains were ledere:y dy to the gates of the palare, to wait their fenterice from the tyrart's own lips. He al. ways prefided at the torture in perfon, attended by $\mathrm{T}^{1}$ gellinus, captain of the guard, who, from being the moft abandoned man in Rome, was now become his principal minifter and favourite.

Nor were the Ruman provinces in a better fituation than the capital city. The example of the tyrant fcemed to influence his govemors, who gave inflances not only of their rapacity, but of their cruclty, in every part of the empire. In the feventh year of his reign, the Britons retolted, under the conduct of their queen * S.e Erg- Boadicea *; bia were at laft fo completcly defe:ted, that whi. ever after, during the contmuance of the Roma ce ainong them, they lot not only all hopes, bat even all defire of freedom.

A war alfo was carticd on aø diult the Purthions for the greatefi part of this resm, conducted by Corbuio; who after many fucceffes, had difpoffeffel Tiridates, and fettled 'Vigranes in Armenia in his room. Tiridates, however, was foon after reftored by aa invanion of the Parthims into that country; but being once more oppofed by Corbuto, the Romans and Parthians came to an egreement, that Tiridates $\wp$ huld continue to govern Ammenia, upon condition that he thould lay dumn his crown at the feet of the emneror's ftetue, and receive it as coming foon lim; all which he fhortly after performed. A ceremonv, however, which Nero defired to lave roncated to his perfon; wherefote by letters and promices he invited Tiridates to Rome, granting hin the moit magnificent fupplies for his journey. Nero attended his arrival with very famptuus freparations. He rezeived him feated on a throre. accommanied bv the fenate taming round $\mathrm{F} . \mathrm{m}$, and the whole army drawn out with all imaginable ! ler 3cur.Tiridates afcendet the throne with grent reverence; and approncling the emperor feit down at his fect, and in the mo? Bice terms ackn wlodged himelf his f.vc. Norn rafed him up. tclling him with comil arrogence, that he did well, and that by his fuhmilif a he had givent a kingiom which his ancefors coutd never ar thire by their amms. He then placed the cromn on lis head, and, after the mof cofty ceremomiss and entertainments, He was fent back to Armenja, with incredible fums of money to defray the expences of his return.

In the $12: \mathrm{h}$ yent" of this empe-or"s reign, the Jews alfo revolted, having heen feverely oppreffed ty the Rowan governor. It is faid that Florus, in particular, was arrived at thet: degree of tyrannt, that by public proclamation he gave permiffion to plunder the country, provided he received half the fpoil. Thele oppre?fions drew fuch a train of calamities after them, that the fufferings of all other nations were flight in comparifon to what this devoted people afterwards endured, as is refated under the article Jows. In the mean time,

Nero proceeded in his cruelties at Rome with unabated feverity.

The valiant Corbulo, who lad gained fo meny vietories over the Parthians, could not efcaje his fury. Nur did the emprefs Popp xa herfelf efcape; whom, in a fit of anger, h-kicked when fhe was !reonant, by which the mifcarriel an 1 died. At laft the Romans began to grow wery of fuch a monter, and these appuared a general revolution in all the provinces.

The firft appeated in Garl, under Julius Vindex, Revoth of who commanded the legions there, and publicly proteit. Vindex in cd againt the tyrannical gevernmet ' of Nero. He ap. Gaul, perred to have no other motive ior this revo't than that of frecing the world from an upprefor; for when it was told him that Nero had fet a reward won bis head of $10,020.000$ of feflerces, he made this gallant anfwer, " Whocver brings me Vers's head, thall, if he pleales, have mine." But ftill merc to bow that he was not actuated by motives of private ambition, he proclaimed Sergitrs Galba emperor, and invited him to join in the revolt. Galb, who was at that time sovernor of Spain, was equally remark ble for his wifdom in peace and his courage in war. But as all talents under corrupt princes are dangerous, he for fome years had feemed willing to court oblcurity, giving himfelf up to an inactive life, and avoiling all o portunities of $\mathfrak{\Omega}$. nalizing his valour. He now therefore, either throug? the caution attending old are, or froni a total want of ambition, appeared little inclined to join with Vindex, and continue 1 for fome time to deliberate with his frionds on the part he fhould take.

In the mean time, Miern, who had been apprifed of the proceedings againf him in Gaul, appeared totally $\mathbf{r}$ gardlets of the danger, privaleiy thattering himfelf that the fupmeffion of this revolt would give him an opportuni:y for frefinconfifcntions. But the actual tevolt of Guba, the nows of which arrived toon a ter, affected him in a very different manner. The reputation of that and of general was f:ech, that from the mument lie declared Galba. agrainf him, Nuro confidered himitelf as undone. He reccived the account as lee was at fupper; and inflant1y, ftruck with terror, overturned the table with his fort, breaking two cryilal vafes of immenfe walue. He then fell into a ween; from which whea he reo vered, he tore his clotlies, and ftruck his hevd, crying out, "that he was utter!y undone." IJe then began to micditate flaughtere more extenfive than he yet had coms ritted. He tw'?ved to mafficre all the governors of poovinces to deliroy all eviles, and to murder ait the Grau's in Rome, as a purnfiment for the treachery of theit countrymen. In foort, in the wildnef of his rage, he thought of poifoning the who'e fenate, of burning the city, and turning the lions kept for llie purpoles of the theatre out upon the people. Thefe defigns being impracticable, he refolved at lant to face the danger in perfun. But his very preparations ferved to mark the infatoation of his mind. His principal care tras, to provide waggors, for the convenient carriage of his mufical inftruments : and to drefs out his concubines like Amazons, with whom he intended to face the enemy. He alfo made a refolution, that if he came off with fafe ty and empire, he would appear again upon the theatre with the lute, and would equip himelf as a pantomime.

While Neso was thus frivoloufly employed, the revolt became

## $R \quad 0 \quad M \quad\left[\begin{array}{lll}206\end{array}\right] \quad R \quad O \quad M$

Rome. became. general. Not only the armies ia Spain and Gaul, but alio the legions in Germany, Africa, and Lufitania, declared againit him. Virginius Fufus alone, who commanded an army on the Upper Rhine, for a while comtinued in fufpenle ; during which his forces, without his permiffion, falling upon the Gauls, routed them with great flaughter, and Vindex flew himfelf. But this ill luccefs no way adranced the interefts of Nero; he was fo detelled by the whole empire, that he could find none of the armies faithful to him, however they might difagzee with each other. He therefore called for Locufta to furnifl him with poiion; and, thus prepared for the worft, he retired to the Servilian gardens, with
a refolution of flying into Egypt. He accordingly difpatched the freedmen, in whom he had the molt confidence, to prepare a fleet at Oftia; and in the meanwhile founded, in perfon, the tribunes and centurions of the guard, to know if they were willing to fhare his fortunes. But they all excufed themfelves, under divers pretexts. One of them had the boldnefs to anfwer him by part of a line from Virgil : U/que adeone miferum eft mori ? " Is death then fuch a misfortune ?" Thus deftitute of every refource, all the expedients that cowardice, revenge, or terror could produce, took place in his mind by turns. He at one time refolved to take refuge among the Parthians; at another, to deliver himfelf up to the mercy of the infurgents: one while, he determined to mount the roftrum, to afk pardon for what was paft, and to conclude with promifes of amendmeat for the future. With thefe gloomy deliberations he went to hed; but waking about midnight, he was furprifed to find his guards had left him. The pretorian foldiers, in fact, having been corrupted by their commander, had retired to their camp, and proclaimed Galba emperor. Nero immediately fent for his friends to deliberate upon his prefent exigence; but his friends alfo forfook him. He went in perfon from houfe to houfe; but all the doors were flut againft him, and none were found to anfwer his inquiries. While he was purfuing this inquiry, his very domeftics follorred the general defuation; and having plundered his apartment, efcaped different ways. Being now reduced to defperation, he defired that one of his favourite gladiators might come and difpatch him: but even in this requeft there was none found to obey. "A Alas! (cried he) have I neither friend nor enemy?". And then ruming defperately forth, he feemed refolved to plunge headlong into the Tiber. But juft then his coarage begiming to fail him, he made a fudden flop, as if willing to recolleet bis reafon; and afked for fome fecret place, where he might re-aflume his courage, and meet death with becoming fortitude. In this diftrefs, Phaon, one of 1.is freedmen, offered him his country-houfe, at about four miles dittant, where he might for fome time remain concealed. Nero accepted his offer ; and, halfdreffed as he was, with his head covered, and hiding his face with a handkerchief, he mounted on horfeback, attended by four of his domeftics, of whom the wretched Sporus was one. His journey, though quite thort, was crowded with adventures. Round him he heard rothing but confufed noifcs from the camp, and the cries of the foldiers, imprecating a thoufand evils upon his head. A paffenger, meeting him on the way, cried, "There go men in purfuit of Nero." Another alked him, if there was any news of Nero in the city? His
horfe taking fright at a dead body that lay near the road, he dropped his handkerchief; and a ioldier that was near, addrefled him ty name. He notv therefore quitted his horfe, and forfaking the hightray, entered a thicket that led towards the back part of Phaon's houfe, through which he crept, making the beft of his way among the rceds and brambles, with which the place was overgrown. When he was arrived at the back part of the houfe, while he was waiting till there fhould be a breach made in the wall, he tock up fome water in the hollow of his hands from a pool to drink ; faying, "To this liquor is Nero reduced." When the hole was made large enough to admit him, he crept in upon all-fours, and took a thort repofe upon a wretched pallet, that had been prepared for his reception. Being prefled by hunger, he demanded fomerthat to eat: they brought him a piece of brown bread, which he refufed ; but he drank a little water. During this interval, the fenate finding the prætorien guards had taken part with Galba, declared him emperor, and condemned Nero to die more majorum; that is, " according to the rigour of the ancient laws." Thefe ćreadful tidings were quickly brought by one of Phaon's flaves from the city, while Nero yet continued lingering between his hopes and his fears. When he was told of the refolution of the fenate againft him, he afked the meffenger what he meant by being punihhed " according to the rigour of the ancient laws ?" To this he was anfwered, that the criminal was to be ffripped naked, his head was to be fixed in a pillory, and in that pofture he was to be fcourged to death. Nero was fo terrified at this, that he feized two poniards which he had brought with him, and examining their points, returncd them to their fheaths, faying, that the fatal moment was not yet arrived. However, he had little time to fpare ; for the foldiers who had been fent in purfuit of him were juft then approaching the houfe: wherefore hearing the found of the horfes feet, he fet a dagger to his throat, with which, by the affilance of Epaphroditus, his freedman and lecretary, he gave himfelf a mortal wound. He was not quite dead when one of the centuriors entering the room, and pretending he came to his relief, attempted to fop the blood with his cloak. But Nero, regarding him with a ftern countenance, faid, "It is now too late. 1s this your fidelity ?"Upon which, with his eyes fixed, and frightfully faring, he expired, in the 32 d year of his age, and the $1+$ th of his reign.

Galba was 72 years old when he was declared em- Uneafinefs peror, and was then in Spain with his legions. How-of Gaila in ever, be foon found that his being raifed to the throne the h. win. was but an inlet to new difquietudes. His firlt embar- ning of his raffment arofe from a diforder in his own army ; for ${ }^{\text {reign. }}$ upon his approaching the camp, one of the wings of horfe repenting of their choice, prepared to revolt, and he found it no eafy matter to reconcile them to their duty. He allo narrowly efcaped affafination from fome nlaves, who were prefented to him by one of Nero's freedmen with that intent. The death of Vindex alfo ferved to add not a little to his difquietudes; fo that, upon his very entrance into the empire he had fome thoughts of putting an end to his own life. But hearing from Rome that Nero tras dead, and the empire transferred whim, he inmediately affumed the title and enfigns of command. In his joumey towards Rome

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he was met by Rufus Virginius, who, finding the fenate had decreed hins the government, came to yield him obedience. This general had more than once refufed the empire himfelf, which was offered him by his foldiers; alleging, that the fenate alone had the difpofal of it, and from them only he would accept the honour.

Galba having been brought to the empire by means of his army, was at the fame time willing to fupprefs their power to commit any future difturbance. His firt approach to Rome was attended with one of thofe rigorous ftrokes of juftice which ought rather to be denominated cruelty than any thing elfe. A body of mariners, whom Nero had taken from the oar and enlified among the legions, went to meet Galba, three miles from the city, and wilh loud importunities demanded a confirmation of what his predeceffor had done in their favour. Galba, who was nigidly attached to the ancient difcipline, deferred their requeft to another time. But they, confidering this delay as equivalent to an abfolute denial, infifted in a very difrefpeaful manner; and fome of them even had recourfe to arms: whereupon Galba ordered a body of horfe attending him to ride in among them, and thus killed 7000 of them ; but not content with this punift:ment, he aftervards ordered them to be decimated. Their infolence demanded correction; but fuch extenfive puniflments deviated into cruelty. His next tep to curb the infolence of the foldiens, was his difcharging the German cohort, which hdd been eftablifhed by the former emperors as a guard to their perfons. Thofe he fent home to their oirn country unrewarded, pretending they were difafiected to his perfon. He feemed to have two other objects alio in view; namely, to punifh thofe vices which had come to an enormous height in the lait reign, with the ftricteft feverity; and to replenifh the exchequer, which had been quite drained by the prodigality of his predecefiors. But theie attempts only brought on him the imputation of feverity and avarice; for the fate was too much corrupted to admit of fuch an immediate tranfition from vice to vistue. The people had long been maintained in tinth and luxury by the prodigality of the former emperors, and could not think of being obliged to feek for new means of fubfiftence, and to retrench their fuperfluitice. They began, therefore, to fatirize the old man, and turn the fimplicity of his manners into ridicule. Among the marks of avarice recorded of him, he is faid to have groaned upon having an expenfive foup ferved up to bis table; he is faid to have prefented to his fleward, for his fidelity, a plate of beans; a famous player upon the fute, named Canus, having greatly deligited him, it is reported, that he drew out his purfe, and gave him five-perice, telling him, that it was privise and not public money. By fuch ill-inded frugalitie, at fuch a time, Galina be in to lofe his popularity; and he, who before his acceffion wae efiecmed by all, being become emperor, was confifered with ridicule and $c$ ntempt. Bat there are fome circumflances alIrged againf him, le!s equivocal than thofe tritling ones already mentioned. Shortly after his coming to Rome, the peorle were prefented with a moit grateful fee . cle, nhich was that of Locufta, Elius. Policletus, Petrorious, and Petimas, all the blondy miniters of Noros -rechy, drawn in feiters throngh the city, and publicly evecuted. But Tigellirus, who had been more aftive
than all the reft, was not there. The crafty villain had Rome. taken care for his own fafety, by the largenefs of his bribes: and though the peoplc cried out for vengeance againf him at the theatre and at the circus, yet the emperor granted him his life and pardon. Ilclotus the eunuch, allo, who had been the inftrument of poifoning Claudius, elcaped, and owed his fafety to the proper application of his wealth. Thus, ty the inequality of his conduct, he became delpicable to his fubjects. At one time fhewing himfelf fevere and frugal, at another remils and prodigal ; condemning furme illuftrious perfons without any bearing, and pardoning others though guilty: in fhort, nothing was doue but by the mediation of his favourites; all cffices were venal, and all punilhments redeemable by money.

Affairs were in this unfettled pofture at Rome, when the provinces were yet in a worfe condition. The fuccefs of the army in Spain in choofing an emperor induced the legions in the other parts to wifh for a finilar opportunity. Accordingly, many feditions were kindled, and feveral factions promoted in different parts of the empire, but particularly in Germany. There were then in that province tuo Roman armies; the one which had lateiy attempted to make Rufus Virginius emperor, as has been already mentioned, and which was commanded by his lieutenant; the othcr commanded by Vitellius, who long had an ambition to obte in the cmpire for himfelf. The former of the?earmies defpifing their prefent general, and confidering themfelves as fufpected by the emperor for having been the laft to acknowledge his title, refolved now to be foremoft in denying it. Accordingly, when they were fummoned to take the oaths of homare and fidelity, they refufed to acknowledge any other commands but thofe of the fenate. This refufal they backed by a meflage of the pratorian bands, importing, that the ${ }^{-}$ were refolved not to acquiefce in the clection of an en peror created in Spain, and defiring that the fenats thould proceed to a new choice.

Galba being informed of this commoticn, was fenfible, that, befides lis age, he was lefs refpected fo: want of an heir. He refolved therefore to put whas he bad formerly defigned in cxecution, and to adopi fome perfon whofe virtucs might deferve fuch advancement, and protect his declining age from danger. Its favourites underlancing his determination, infantly refolved to give him en heir of their own choofing; fo that there arofe a great contention among them upot: this occafion. Otho made warm application for himfelf; alleging the great furvices be had done the cmperor, as being the firt man of note who came 10 his affifance when he had declared againgt Nero. However, Galba, being fully refolved to confult the puElic good alone, rejicted his fuit; and on a day appointed ordered Pilo Lucinianus to attend him. The character given by hiftorians of Pifo is, that he was tery wny worthy of the honour defgned him. He uas nostay relaied to Galba; and had no othet incereft It merit to recombend him to his favsur. Tahing this youth therefore by the hand, in the prefence of his friendo, lie adopted lim to fucceed in the cmplite, giving him the moff wholeforme leflons for guiding lis future enduct. Pifo's conduct flowed thit he $1 \mathrm{w} . \mathrm{s}$ highly deferving this diffinetion: in all his depertment there sppeared fuch modefy, frmercfe, ar.d (q) hy ci

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Romr. mind, as befpoke him rather capable of difcharging, than ambilious of obtaining, his prefent dignity. But the army and the fenate did not feem equally difinterefted upon this occafion; they had been fo long ufed to bribery and corruption, that they could now bear no emperor whr was not in a capacity of fatisfying tbeir avarice. The adoption therefure of Pifo was but coldly received; f.r his virives vere no recommendation in a nation of univerfal depravity.

Otho now finding this hopes of acoption wholly frufrated, and will further ftimulated by the immenie load of debt which he had contracted by his riotous way of living, refolved upon obtaining the empri.e by force, fince he could not by peacedble fuccefiion. In fact, his circumflances wore fo very defperate, that he was heard to fay. that it was equal to him whether he fell by his enemies in the field or by his creditors in the city. He thercfore railed a moderate fum of money, by felling h: intereft to a perfon who wanted a place; and with this bribed two fuvaltern officers in the preetorian bands, fupmlying the deficiency of largefles by promifes and plaufibie pretences. Having in this mannier, in lefs thain eight days, corrupted the fidelity of the foldiers, he fitle fecretly from the emperor while he was facrificing; and affembling the foldiers, in a float fpecch urged the cruclties and avarice of Galba. Finding thefe his invedives received with univerfal fhouts by the whole army, he entirely threw of the malk, and avowed his intentions of dethroning him. The foldiers being ripe for fedition, immediately feconded his views: taking Otho upon their fhoulders, they inftantly proclained him emperor; and, to frike the citizens with terror, carried him with their fivords drawn into the camp. Galba, in th volt of the army, feemed utterly confounded, and in want of fufficient refulution to face an event which he mould have long forefeen. In this manner the poor old man continued wavering and doubtful; till at lafi, being deluded by a falle report of Otho's being flain, he rode into the forum in complete armour, attended by many of his followers. Juut at the fame inftant a body of horle fent from the camp to deftroy him entered on the oppofite fide, and each party prepared for the encounter. For fome time hoftilitics were fufpended on each fide; Galba, confufed and irrefolute, and his antagonifts ftruck with horror at the bafenefs of their enterprife. At length, however, finding the emperor in fome meafure deferted by his adherents, they rufhed in upon him, trampling under foot the crowds of people that then filled the forum. Galba feeing them approach, feemed to recollect all his former fortitude; and bending his head forward, bid the aflaffins ftrike it off if it were for the good of the people. This was quickly performed; and his head being fet upon the point of a lance, was prefented to Otho, who ordered it to be contemptuoufly carried round the camp; his body remaining expofed in the freets till it was buried by one of his flaves. He died in the 73d year of his age, afier a ithort reign of feven months.

No fooner was Galba thus murdered, than the fenate and peopie ran in crowds to the camp, contending who fliould be foremof in extolling the virtues of the new emperor, and deprefling the character of him they had fo unjufliy dettrojed. Each laboured to ex-
cel the reff in his inflances of homage; and the lefs his affections were for him, the more did he indulge all the vehemence of exaggerated praife. O:ho finding himfclf furrounded by congratulating multitudes, immediately repaired to the fenaie, where he received the titles ufually given to the emperors; and from therce returned to the palace, feemingly refolved to reform his life, and affume manners becomilg the greatucis of hig ftation.

He began his reign by a fignal iniftance of clemency, in pardoning Marius Celius, who kad been higniy favoured by Gallia; and not contented with barely forgiving, he advanced him to the higheft honours; afferting, that "fidelity deferved every reward." This act of clenercy was followed by another of juftice, equally agreeable to the people. 'iligellinus, Nero's firvourite, be who had been the promoter of all his cruelties, was now put to death; and all fuch as had been unjuftly banified, or firipped, at his inftigation, during Nero's reign, were reftored to their country and fortunes.

In the mean time, the legions in Lower Germany vitelius ${ }^{320}$ having been purchafed by the large gifts and fipecious revelis. promifes of Vitellins their general, were at length induced to proctaim him emperor; and regardlefs of the fenatc, declared that they bad an equal right to appoint to that high fation with the cohorts at Ronie. The news of this conduct in the ammy foon $f_{1}$ read confiernation throughout Rome; but Otho was particularly fruck with the account, as being apprehenfive that nothing but the blood of his countrymen could decide a conteft of which his own ambition only was the caurc. He now therefore fought to come to an agreement with Vitellius; but this not fucceeding, both fides began their preparations for war. News being received that Vitellius was upon his march to Italy, Otho departed from Rome with a vaft army to oppofe him. But though he was very powerful with regard to numbers, his men, being little ufed to war, could not be relied on. He feemed by his behaviour fenfible of the difproportion of his forces; and he is faid to have been tortured with frightful dreams and the mon uneafy apprehenfions. It is alfo reported by fome, that one night fet hing many profound fighs in his fleep, his fervants ran haltily to his bed fide, and found him ftretched on the ground. He alleged he had feen the ghoft of Galba, which had, in a thieatening manner, beat and pufhed him from the bed; and he afterwards ufed many expiations to appeafc it. However this be, he proceeded with a great fhow of courage till he arrived at the city of Brixellum, on the river Po, where he remained, fending his forces before him under the conduct of his generals Suetonius and Celfus, who made what hafte they could to give the enemy battle. The army of Vitellius, which confifted of 70,000 men, was commanded by his generals Valens and Cecina, he himfelf remaining in Gaul in order to bring up the relt of his forces. Thus both fides haftened to meet each other with fo much animofity and precipitation, that three confiderable batlles were fought in the fpace of three days. One near Placentia, another near Cremona, and a third at a place called Cofor; in all which Otho had the advantage. But thefe fucceffes were but of fhort-lived continuance; for Valens and Cecina, who had hitherto acted feparately,

$=$nh $h^{*}$ fea...at ..t Eddincul joi. in ? theis forces, and reinforcing their thies with froll fupnites, refolved to cunte to a gen : 1 enmacement: ():ho, who by this tine had poines his army at a litae village call 1 Bedwo an, finding the e icmy, n t sith? unding their late loffis. incliaed to come to a battle, refolveal to call a council of war to d'termine upon the proper meatures to be taken. His generals wese of opinion to protrat the war: but othere, whufe inex crience had given them confidence, declared, that r. bling tut a batte could relieve the miferies of the fate; potctling that Fortunc, and all the gucis, with the divit ity ot the emperor himfelf, favoured the dsfign, and won'd und uhted!y profper the enterprife. It this advice Otho acquiefeed: the had been for lome time fo un - fy under a ic war, that he feemed willins to exchan, fafpenfe for danger. However, he was fo furrounded wish tlatterers, that he was prohibited from leing perfmally forint in the engagement, but prevailal upon to relerve hinfelf for the fortune of the empaic, and wait the creat at Brixellum. The aftairs of both armiss being il us adjuted, they came to an engageruent at Pulticum ; where, is the begianing, thofe oin the fi.. of Who foned to have the advantare. At length, the fuperier dicipise of the legions of Ni telifus turned the feale of vicery. Otho's army thed in great confuion towards Berrinum, being purfied with a ma:ferable l!ughter all the way.

In thic nean time, Otho wated for the newe of the battle : ith great impatience, and feemed to ta: his meffug ge:s with delay. The firl account of his defeat was brought him by a common foldier, who had efcaped from the ficld of battle. However, Otio, who was fill furroundec' by flatterers, was dcrired to give no credit to a bafe fugitive, who w as guilly of fallehuod only to cover his own cowardice. 'The foldier, however, ftill perfifted in the veracity of his report; and, finding ane inclined to believe him, immediately fell upon his fiwotd, and expired at the emperor's feet. Otho was fo much firuck with the death of this man, that he cried out, that he would caufe the ruin of no more fuch vaiinnt and worthy foldiers, but would erid the conteft the Chortelt way; and therefore having exhorted his followers to fubmit to Vitellius, he put an end to his own life.

It wis no fooner known that Otho had killed łimfili, then all the foldiers repaired to Virginius, the comn1. Ader of the German legions, earm flly intreating him to take if on him the reins of government; or at lealt, intreatin, his mediation with the generals of Vitellius in their fruur. Upon his declining their requeft, Rubrius Gallus, a perfon of comiderable note, undertook th is embafiy to the generals of the conquering army; and joun after obtaincd a pardon for all the adherents of Otho.

Titeliins was immediately after declared einperor by the fena'e; and receivent the marks of diftinciion which vere now accufiomed to follos the appointment of the Prungeif fid. At the fime time, Italy was feverely d: freI d by the foldiers, who commitled fuch outrages at exceeded all the oppreffions of the moll calmitous war. Vitellius, who was yet in Gaul, refolved, heture b: fet out fir liome, to pusith the protorians cohorts, who 1 aid been the iaftruments of all the late difly anees in the ftate. He therefore caufed them to be drinined, in ' 'eprived of the name and honour of fuldicrs. Ile "Vo己. XVIII. Part !.
 put to death.


 flowers, and molutid lismotid with the , ic. ! eacies. In lin jowncy the was nether otider no a a :-
 came with im, uni $y$; w I he feemed no way diple.ad with the lic ntioulneds of their celaviour.

Upon hi arival at lome, he entered the cif:, not as a place he came to zovern with juttice, but: - : गw ? that bec me his owa by the laws of c-uractl. He marched throurg the Itreets monnted on horlebark, s!1 in armour ; the fenate and P ople gring before him, as if the cantives of his late victury. He the next $d y$ made the fenate a feee h, in which he marnioed his own actions, and piomiled them eviruordinary acivantages from his admimitration. He then harangued tixe people, $w^{1}: o$, being now long accuitcrided to hatior d!! is authority, highliy applauded and Blelled their net: cmperor.

In the mean time, his foldiers being permitted to fa-ils 1 tiate themfelves in the dusaucheries of the cily, grew.... $1 . .$. totally unfit for war. The pris cipal ufiars of the itate were managed by the luweit wretches. Vitellius, more abandoned than they, gave limlelf up to all ki :s of lisury and profufenels; but glutto y o is hi favour te vice, fo thas he brought himi f to a labit of vomiting, in o-der to renew his meals at pleature. His ontertaimments, though feldom at his own on't, were prodigioully expenfive; he frequently invised limielf to the tables of his fubjects, breakf.ating with one, di ing with another, and lupping with a third, all in the fame day. The molt memorable of there entertai raents was that made for him by his brother on his arriw 1 at Rone. In this were ferved up 2000 feveral dithes of filh, and $70 c 0$ of fowl, of the mult valuable hinds. But in one particular difl he feemed to have utdone all the former profufion of the moft luxivisus liomans. This dith, which was of fuch magnitude as to be called the Bield of Miner:an, was filled with an olio m: dh frum the founds of the fifh called fourri, the lrains of phasf. ats and woodcocks, the tongues of the moft cu'ly birds, and the fpawn of lamprey, brought from the Cafpian fea. In order to coris tius dilh [r"l at; a furlisce was built in the ficlds, as it was too l of or any kitchen to contain it.

In this manner did Vitellius proceed; fo the: Jife phus telis us, it he had reig red long, the r! oin enpir. would not have been fuflicient to have maint iaed his g'uttony: All the attendants of his cotrt fughe to r.ile themfelves, not by their vistues and abiliti s, but the fumptuoufinefs of their entertanments. Ti is [rdigality produced its attendant, want; and thot, in tu-n, gave rife to cruelby.

Thufe whu had formerly been bi, off citc wate nose detroyed without mercy. Going to vitit ne f them in a violent fever, he mil led poifon with I; water, and delivered it to luis with his own hands. If. never padoned thofe mane j-lenders who carme to de mand payment of his furmer debts. One of the il ber coming to falute him, he imm diately order d in to be cansied off to exection ; but thorth : , omymasding !ian to be brou ht back, in is a. his allonl. U d

## $\bar{R} 0 \mathrm{M} \quad\left[\begin{array}{lll}210\end{array}\right] \quad \mathrm{R} O \mathrm{M}$

R -me. ants thought it was to pardon the unhappy creditor, Vitellius gave them foon to underfland that it was mereIs to have the pleafure of feeding his eyes with his torments. Having condemned another to death, he executed his two fons with him, only for their prefuming to intercede for their father. A Roman knight being dragged away to execution, and crying out that he had made the emperor his heir, Vitellius demanded to fee the will, where finding himfelf joint heir with another, he ordered both to be executed, that he might enjoy the legacy without a partner.

By the continuance of fuch vices and cruelties as thefe he became odious to all mankind, and the aftrologers began to prognofticate his ruin. A writing was fet up in the forum to this effect; "We, in the name of the ancient Chaldeans, give Vitellius warning to depart this life by the kalends of October." Vitellius, on his part, received this information with terror, and ordered all the aftrologers to be banifhed from Rome. An old woman having foretold, that if he furvived his mother, he fhould reign many years in happinefs and fecurity, this gave him a defire of putting her to death; which he did, by refufing her fuitenance, under the pretence of its being prejudicial to her health. But he foon faw the futility of relying upon fuch vain prognoftications; for his foldiers, by their cruelty and repine, having become infupportable to the inhabitants of liome, the legions of the Eaft, who had at firft acquiefced in his dominion, began to revolt, and fhortly after unanimounly refolved to make Vefpafian emperor.
Vefpafian, who was appointed commander againft the rebellious Jews, had reduccd moft of their country, except Jerufalem, to fubjection. The death of Nero, how- ever, had at firit interrupted the progrefs of his arms, and the fucceffion of Galba gave a temporary check to his conquefts, as lie was obliged to fend his fon Tilus to Rome, to receive that emperor's commands. Tiius, however, was fo long deiained by contrary winds, that he received news of Gaiba's death berore he fet fail. Fe then refolved to continue neuter during the civil wars between Otho and Yitellius; and when the latter prevailed, he gave him his homage with reluctance. But being deirous of acquiring reputation, though he difliked the government, he determined to lay fiege to ? ? erulalem, and actually made preparations for that great indertaking, when he was giver to underfand that Vitellius was detefted by all ranks in the empire. Thefe mrrmurings increafed every ci:y, while Vefpafan fecretIf endeavoured to advance the difcontents of the arsyy. By thefe means they began at length to fix their cyes upon him as the perfon the moft capable and willing to terminate the miferies of his country, and put a period to the injuries it fuffered. Not only the legions under his command, but thofe in Maxfa and Pannonin, came to the fame refolution, fo that they declared themfelves for Vefpafian. He was alfo without his own confent prochiraed emperor at Alenandia, the army there confirming it with extrtordinary applatife, and payink their accufomed horaage. Still, bowever, Velpafian feemed to decline the henour done him; till at length his foldiers compelled him, with their threats of immodiate death, to accept a tillewhich, in all probability, he sviihed to enjoy. He norv, therofore, called a council of war: where it was refolved, that his fun Titus fhould carry: on the war againft the Jews; and that Mutianus,
one of his generals, hould, with the greatef part of his legions, euter Italy ; while Vefpafian himfelf fhould levy forces in all parts of the eait, in order to reinforce them in cafe of neceffity.

During thefe preparations, Vitellius, though buried in floth and luxury, was refolved to make an effort to defend the empire; wherefore his chief commanders, Valens and Cecina, were ordered to make all poffible preparations to refift the invaders. The firft army that entered Italy with an hoflile intention was under the command of Antonius Primus, who was met by Cecina near Cremona. A battle was expected to enfue; but a negociation taking place, Cecina was prevailed upon to change fides, and declare for Vefpafian. His
army, however, quickly repented of what they had done ; upon to change fides, and declare for Vefpafian. His
army, however, quickly repented of what they had done; and imprifoning their general, attacked Antonius, though $3_{2}^{28}$ without a leader. The engagement continued during Vitellius the whole night : in the morning, after a fhort repaf, defeated. both armies engaged a fecond time; when the foldiers of Antonius faluting the rifing fun, according to cuftom, the Vitellians fuppofing that they had received new reinforcements, betook themfelves to flight, with the lofs of 30,000 men. Shortly after, freeing their general
Cecina from prifon, they prevailed upon him to interof 30,000 men. Shortly after, freeing their general
Cecina from prifon, they prevailed upon him to intercede with the conquerors for pardon; which they obcede with the conquerors for pardon ; which they ob-
tained, though not without the moft horrid barbavities committed upon Cremona, the city to which they had retived for thelter.

When Vitellus was informed of the defeat of his army, his former infolence was converted into an extreme of timidity and irrefolution. At length he commanded of timidity and irrefolution. At length he commanded
Julius Prifcus and Alphenus Varus, with fome forces that were in readinefs, to guard the paffes of the Apen-
nines, to prevent the enemy's march to Rome; refervthat were in readinefs, to guard the pafles of the Apen-
nines, to prevent the enemy's march to Rome ; referving the principal body of his army to fecure the city, under the command of his brother Lucius. But being perfuaded to repair to his army in perfon, his prefence only ferved to increafe the contempt of his foldiers. He there appeared irrefulute, and fill luxurious, without counfel or conduct, ignorant of war, and demanding from others thofe inftructions which it was his duty to give. After a fhort continuance in the cainp, and underftanding the revolt of his fleet, he returned once more to Rome : but every day only ferved to render his affairs fill more defperate; till at laft he made offers to Vefpafian of refigning the empire, provided his life were granted, and a fullicient revenue for his fupport. In granted, and a fulticient revenue for his fupport. In
order to enforce his requeft, he iffued from his palace in deep mourning, with all his domeflics weeping round him. He then went to offer the fuord of jultice to Ce cilius, the conful; which he refufing, the abject empecilius, the conful; which he refuing, the abject empe-
ror prepared to lay down the enfigns of the cmpire in the temple of Concord. But being interrupted by
fome, who cried out, That he himfelf was Coucord; the temple of Concord. Put being interrupted by
fome, who cried out, That he himfelf was Coucord; he refolved, upon fo weak as cacouragement, ftill to maintain his power, and immetiately prepared for bis defence.

During this fluciuation of counfels, one Sa! inus, who had advifed Vitellims to refign, perceiving lis defperate fituation, refolved, by a bold Itep, to oblige Vefpafian, and 329 and accordingly feized upon the Capitol. But he was The Capipremature in his attempt; for the foldiers of Vitellius il buins. attack d him with great fury, and, prevniling by their numbers, foon laid that beautiful building in afies. During this dreadiul confagration, Vitellius was featt$\underbrace{\text { Reme. }}$
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#### Abstract




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my, his former infolence was converted into an extreme iing

## $\mathrm{R} O \mathrm{M}$ $[2 I I] \quad R O M$

Rome. ing in the palace of Tiberius, and beholding all the horrors of the affault with great fatisfaction. Sabinus was taken prifoner, and thortly after executed by the emperor's command. Young Domitian, his nephew, who was afterwards emperor, efcaped by light, in the babit of a prielt ; and all the rell who furvived the fire were put to the fword.

But this fuccefs ferved little to improve the affairs of Vitellius. He vainly fent meffenger atter mefienger to bring Vefpafian's general, Antonius, to a compofition. This commander gave no anfiver to his requelts, but ftill continued his march towards Rome. Being arrived before the walls of the city, the forces of Vitellius were refolved upon defending it to the utmoft extremity. It was attacked on three fides with the utmoft fury; while the army withio, fallying upon the befiegers, defended it with equal obitinacy. The battle latt- ed a whole day, till at laft the befieged were driven into the city, and a dreadful flaughter made of them in all the Itreets, which they vainly attempted to defend. In the mean time, the citizens flood by, looking on as both fides fought; and, as if they bad been in a theatre, clapped their hands; at one time encouraging one party, and again the otber. As either turned their backs, the citizens would then fall upon them in their places of refuge, and fo kill and plunder them without mercy. But what was ftill more remarkable, during thefe dreadful flaughters both within and without the city, the people would not be prevented from celebrating one of their riotous feafts, called the Saturnalia; fo that at one time might bave been feen a ftrange mixture of mirth and milery, of cruelty and lewdnefs; in one place, buryings and flaughters; in another, drunkennefs and feafting ; in a word, all the horrors of a civil war, and all the licentioufnefs of the molt abandoned fecurity !

During this complicated fcenc of mifery, Vitellius retired privately to his wife's houfe, upon Mount Aventine, defigning that night to fly to the army commanded by his brother at Tarracina. But, quite incapable, through fear, of forming any refolution, he clanged his mind, and returned again to his palace, now void and defolate; all his flaves forfaking him in his diftrefs, and purpofely avoiding his prefence. There, after wandering for fome time quite difconfolate, and fearing the face of every creature he met, he hid himfelf in an obfcure corner, from whence he was foon taken by a party of the conquering foldiers. Still, however, willing to add a few hours more to his miferable life, he begged to be kept in prifon till the arrival of Vefpafian at Rome, pretending that he had fecrets of importance to difcover. But his entreaties were vain: the foldiers binding his hands behind him, and throwing an halter round his neck, led him along, half naked, into the public furum, upbraiding lim, as they proceeded, with all thofe bitter reproaches their malice could fuggeff, or his own cruelties deferve. They alfo tied his hair backwards, as was ufual with the molt infamous malefactors, and held the point of a fword under his chin, to prevent his hiding his face from the public. Some call dirt and filth upon him as he paffed, others Atuck him with their hands; fome ridiculed the defects of his perfon, his red ficry face, and the enormous greatnefs of his belly. $A 1$ length, being come to the place of puniflment, they killed him axith many blorss'; and then dragging the dead body
through the fureets with an hook, they threw it, with all poltrble ignominy, into the river Tiber. Such was the miferable end of this emperor, in the $57^{\text {th }}$ year of his age, after a thort reign of eight mouths and five days.
3.37

Vitellius being dead, the conquering army purfued Drealful their enemies thtoughout the city, while neither houfes cruelties nor temples afforded refuge to the fugitives, The practied flreets and public places were all strowed with dead, dicrs. each man lying flain where it was his nisforture to be overtaken by his unmercitul purfuers. But not only the enemy fuffered in this manner, but many of the citizens, who were obnoxious to the foldiers, sere dragged from their houfes, and killed without any form of tral. The heat of their refentment being fomewhat abated, they next began to leek for plunder; and under pretence of fearching for the enemy, left no place without marks of their rage or rapacity. Befides the foldiers, the lower rabble joined in thefe deteftable outrages; fome flaves came and difcovered the riches of their mafters; fome were detected by their neareft friends; the whole city was filled with outcry and lamentation ; infomuch, that the former ravages of Otho and Vitellius were now confidered as flight evils in comparifon.

Upon the arrival of Mutianus, general to Vefpafian, thefe flaughters ceafed, and the ftate began to affume the appearance of former tranquillity. Vefpafian was declared emperor by the unanimous confent both of the fenate and the army ; and dignified with all thofe titles which now followed rather the power than the merit of thofe who were appointed to govern. Meffengers were difpatched to him into Egypt, defiring his return, and teftifying the utmoft delire for his government. However, the svinter being dangerous for failing, he deferred his voyage to a more convenient feafon. Perhaps, allo, the diffenfions in other parts of the empire retarded his return to Rome ; for one Claudius Civilis, in Lower Reroit of Germany, excited his countrymen to revolt, and de-Caudius froyed the Roman garrifons, which were placed in different parts of that province. But, to give bis rebellion an air of juttice, he caufed his army to frrear allegiance to Vefpafian, until he found himfelf in a condition to throw off the malk. When he thought himfelf fulticiently powerful, he difclaimed all fubmiffion to the Monan government ; and lraving avercome one or tro of the lieutenants of the empire, and being joined by fuch of the Romans as refufed obedience to the new emperor, he boldly adranced to gire Cerealis, Vefpafian's general, battle. In the beginning of this engagement, he feeni ed fuccelsful, breaking the Roman legions, and putting their cavalry to flight. But at length Cerealis by his conduct turned the fate of the day, and not only routed the enerny, but took and deftoyed their camp. This engagement, hotwever, was not decifive; feveral others entued with doubtful fuccefs. An accommodation at length took place. Civilis obtained peace for his countrymen, and pardon for himtelf; for the Ruman empire was, at this time, fo toro by its own divifions, that the barbarous nations amund made incurfions with impunity, and were fure of obtaining peace whenever they thought proper to demand it.

During the time of thele commotions in Germany, Irruption the Sarmatians, a barbarous nation in the north-eaft of of the Sarthe empire, fuddenly paffed the river Ifer, and marched matians. into the Roman dominions with foch celerity and fury,

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{lll}212\end{array}\right] \quad \mathrm{R} O \mathrm{M}$

Fome as : deftroy feveral garrifons, and an army :der the command of Fonteius Agripa. They were driven bark by liubrius Gallus, Vefpafian's lieutenant, into their native forefts; where feveral aitempts wore made to confine them by ganifons and forts, placed along the comfines of their country. But thefe hardy nations, liasing once found the way into the cmpire, never after deffified from invading it upon every opportunity, till at le: oth they overran and deftroyed it entinely.

Vefpafian continued lome months at Nlexandria in Egypt, where it is faid he cured a blind and a lame man by touching them. Before he fet out for Rome, he gave his fon Titus the command of the army which was to lay fiege to Jerufalem; while he himlelt went forward, and was met many iniles from Rome ty all the fenate, and near half the inhabitants, who grave the finccreft teltimonies of their joy, in having an emperor of fuch great and experience $d$ virtues. Nor did he in the leaft difappoint their expectations; being equally affiduous in rewarding merit, and pardoning his adverfaries; in reforming the manners of the citizens, and letting them the beit example in his own.

In the mean time, Til"s carried on the war aqsinft the Jews with vigour, which ended in tie rerrible defirt.ction of the city, mentioned under the article Jews. After wlich his foldiers wouid have crowned Titus as congueror; but he renufed the honour, alleging that he was on'y an infromemt in the hand of Heaven, that sannifoitly declared its wrath againd the Jews. At Lome, however, all mouths were filled with the praites if the conqu:eror, who had nol only thowed himflif an excellent genera?, but a courageous combatant : his return, thezefure, in triumph, which he did with his father, w : :anaked with all the magnificence and joy that wa in the power of men to exprefs. All things that vare eiteemed valuable or beautiful among men were ${ }^{1}$ :or:ght to tarm this great cecafon. Among the rich 4time we expofed vait quantities of gold taken out of the temple; lut the book of their law was not the aft remarkable amongt the magnificent protufion. A tiumplal arch was crected upon this occation, on which ticre deleribed all the victurics of Titus over tise lews, which remnins almoft entire to this very day. Vefpntian likcwife built a tempie to Peace, wherein were depofited moft of the Jewifh fpoils; and having now calincd all the commotions in every part of the empire, he fhat up the temple of Janus, which had been open about sive or fix years.

Vefpafian having thus given fecurity and peace to $t$ ? empire, refolved to correct numberlefs abufes which had grown up under the tyranny of his predeceffors. To effect this with greater eafe, he joined Titus with him in the confulfipip and tribunitial power, and in fome meafure admitted $\lim$ a partner in all the higheft oflices of the ftate. He bagan with reftrainisg the licentioufnefs of the army, and forcing them beck to their prittise difcipline. He abridged the proceffes that had been carricd to an unreafonable length in the courts of juftice. He touk: care to rebuild fuch parts of the city as had fufiered in the late commotions; particularly the Capitol, which had been lately burnt; and which he now reftored to more than former magnificence. He likewife built a funous amphitheatre, the rhins of which are to this day an evidence of its ancient grandeur. The wher ruirous cities of the empire alfo thared lis pates.
nol care; lie improved fuch as nere declining, adorned. others, and built many anew. In fucin acts is thele he palfid a long reign of ciemency and moderation; io that it is faid, no man fuffered by an ur.jult or a terere decree during his adminilfration.

Julius Sabinus icems to be the only perion who was Advertues treated with greater rigour than was wiual with this cm -ard death peror. Sabinus was cummander of a imall army in ff lutus SaGaul, and had declared himfelf emperor upon the death binus of Vitellius. But his army was fhortly atter overconse by Velpafian's general, and he himelf compelled to feck falcty by tlight. He wandered for tome time through the homan provinces, without being dilcovered: but finding the purdit every day become cioter, he was obliged to hide limfelt in a cave ; and in it he remained concealed for no lel's than nine years, atienced all the time by his fathful wite Empona, who provided provifions for him by day, and repaired to him by night. She was at laft dilcosered in the performance of this pious office, and Sabinus was taken prifoner and carried to Rome. Great interceflion was made to the cmperor in histehalf: Empona locilelf appeating with her two childen, and impioring ler l.wiband's pardon. Let ncither her tears nor intreaties cculd provail ; Sabinus had Leen too dangerous a sival for mercy; fo that, though fiee and her children were fpated, lier hutband fuftered by the executicner.

But this feems to te the only inflance in which he : ccitising fented paft offences. He caufed the daughter of Viul-in: it lius, lifs avewed enemy, to be married nito a wolle la- 4. . Ace mily, and be himelt frovided her a 1 titable tortmec. ${ }^{1 \prime}$ b . . 1 Ore of $X$ ro's fe-vants consing to beg for 1 wad nir tor havin:g cnee rudely thrutt bim cut of the palace, and - -t futted him ulver in etlice, Vefpafian only took his revenge by ferving lim ithe in the lame matmer. When any plots or confifiacics we:c lormed again til lim, he difdained to punith the guiley, trying, dhat they deferved rather his cont mapt for their is trance, than lis refentment ; as they feemed to envy lim a cignity of which he difily expetionced the tumafisels. Itis libernlity towards the encouregement of atts and larnins, was not lefs than his clemen cy. He fettled a confla': t falary of 100,000 feiterces upon the teachers of ato:0ric. He was particularly favourable to Jolephus, the Jewifh hirorian. Quintilian the orator, and Pliny the naturalif, fiourifhed ia bis reign, and were highly clleemed by him. He was no lefs an ericourger of all other excellencies in art; and invited the greatelt maflers and artificers from all parts of the world, making them confiderable prefents, as he found occafion.

Iet all his numerous हets of generofty and nagginifio cence could not preferve his character fioms the imphtation of rapacity sud avarice. IIc rcrised mony obinlete methods of tamation ; and eten bear ht and follt commodities limfelf, in order to increale lis fortai.e. He is charged with advancing the molt avaricictis :0vernors to the provinces, in orcer to thare their plunder on their return to Rome. He defcended to fome vesy unnfual and dilhoneurable impolts, eren to the loving a tax upon wrine. When his ton 'Titus remondlated againft the meanncfs of fuch a tax, Vefprifian taking a piece of money, demanded if the fmell offonded him; and then added, that this very money was produ ed l,y urine. But in excufe for this, we mult obferve, that the excheruer, wben Vefpagian came to the throne,

## R O M 「 2t．〕 R O M

Reme．was fo much ，shathed thei he infor．a th fensie that it wou d require a coly of three hatraded mi－ lions（of out meney）to riee：ablith the common $\cdot$ trit $h$ ． Jhis niceflity mart natu，ally produce more nur，fas and hexy taxations than the empire had hithert）ex，e－ rienced：but while the provinces were thus oh：ed to contribute to the fuppost of his perier，he to a eve y preca uion to provide for their fafety；fo that we sind but two infurrections in this reign．－In the fourth year of his reign，Avtiochus king of Comagena，holding a private correfpridence with the Parthians，the declared enemies of Rome，was taken pritner in Cilicia，by Pyrrhus tie governor，a：a fent bound to R wie．Bui Vefpafian generonly picvented all ill treatinent，by giving lim a refidence a：Lacedxemon，and alowing him a revenue fuital le io ha dianity．A＇rout tlie iame tine alfo，the Alhi，a inar xous people innabiting along the river F naie，at．andoned their barren widds， and invaded the ki．odom of Metlia．From thence paf－ fing into Armenis，atter sfeat ravages，they overthiciv Tiridales，the $k i \nLeftarrow$ of itat country，with prodigious flughter．Titis was at learrth fent to challife their infolence ：but the b rbatians retired at the anproach of the Roman army，luade＇with plunder：being compel－ led to wait a more favnurable opportunity of renewing their irruptions．Thefe incurfions，however，wete but a tranfient ftorm，the eff Ats of which were foon re－ paired by the emperor＇s moderation and affiduity．We are told，that he now formed and effablifhed a thoufand nations，which had fearecty before amounted to 200 ． No provinces in the empire lay out of his view and protection．He had，during his whole reign，a parti－ cular regard to Britain；his genefals，Petilius Cerealis， ant Julius Frontines，broughe the greateft part of the ifland into fubjection；and Agrionla，who fucceeded foon after，completed wh．．t they lad begun．See ExG－ bavo．

In this manner，having reigned 10 years，loved by his fabicets，and defertigg then affection，her was fu： prifed by an inci oftion at Campania，which be at once declased wan．．d be fatal，crying out，in the f－ivit of Fagani in，＂Mcthisks I am going to be a rod．＂ Removirg from ther．ce to the citv，and a lemaras to a co：intry－feit near Reate，he was thers taken with a 年ux， which brozght him to the laft extiemity．However， perceiving his end approach，and juit going to expire， he cried out，that an emperor ought to dic ftanding； wherefore，riting himfelf unan his feet，he expired in the hands of thofe that fitisined him．
Tin．．fice．Titus being joyfully rcceived as emperor，notwith－ cred is the flanding a ffight oppotivicn from his brother Donitinn， who maintairied that lie hinfelf was appointed，and that Titus bad filfitied t．e will，began his reign with evcry virtue that Lream an eniperor and a man．During the life of his father there had been many imputations agrinft him ；but upon lis exaltation to the throne he feemed e．tircly to take leave of his former vices，and berame an essmple of the greateft moderation and hus n．．nity．He had long lisved Berenice，fitler to A crip－ pating of Judra，a woman of the greaten beanty and allurement！．But knowino that the comection with her was entirely difagrecable to the peonle of Rome， he fent her away，noturithtanding their mutual paffion and tiae many arts the ufed to indece him to chare e his refolations．He next difoarded all thofe who had been
the iormer mmilter if his pleafures，ati io bore to co wet ance the com ．ions of his loser recreations， th a．Ih lie lad formerly tak of great pains in the feice． tion．＇Inis moderation，adued to his jutice and gene－ rofity，procured hin the love of all good ment，and the appei stion of the del ght of ma akind，which all his ac－ tions lee aed calculated to enture．As he came to the throne with all the advartaics of his father＇s popularity， he was affolved to ufe every method to increafe it．He therefore took particular care to punith all informer， falie witneffes，and prometers of diffenfion，co ámuing them to be fo urged in the molo public itrewts，rext ic be dragered throsgh the theatre，and then to he baniff： ed to thic uninhaoited purts of the cmyize，and fold as flaves．His couriefy and readine＇s to do gnod have been celcbrated even by Chatlian writers ；his ptincipa！rale being，never to fend any petitioner diftitisfied away． One night，recollutiig that he had cone nothing bene－ ficial to nankind the dy preceding，be cried owt among fis iriends，＂I have loit a d．j．A fentence too re－ markable not to be unirctiat known．

In this reimn，an eruption of Masat Te uvius did coniliderabie damage，overwholming many tomms，and： fending its afhes inio countries more than 100 miles： diftant．Upon this memorable occafion，Piiny the na－ turalift loft his life；for，being impelled by too e ger a curiofity to obferve the eruption，he was fuffocated in the flames＊．There happened allo about this time a＊See 1． fire at Rome，which contimed three days and nights fucceffively，which was followed by a plague，in which 10,000 men were buried in a day．Ihe emperor，how－ ever，did all that lay in his power to repair the damage fuftained by the public；and，with refpect to the city， declared that he would take the whole lofs of it upou himfelf．Thefe difalters were in fome meafure cou ter－A．zicnla balanced by the fuccefies in Britain，under Agricola．$z$ This exccllent general having heen fent into that coun－1．E：r－ try tovards the latter end of Vefpafian＇s reign，fhowed himelf equally expert in quelling the refrattory，and ci－ vi izing those who had formotly fubmittel to the Ro－ man porse－．The Oedorices，or iahabitants of Nut is V．Lles，were the firlh that were fabdued．He ther in．．．de a defcent up a Mors，or the ifland of Aryleca －hich firrendered at citeretion．Having thus rondewed himfilf matter of the whole count $y$ ，he took cicry my－ thod to rellore dicici line to his own army，a di to atro． duce fume flare of politenef among thote i h m 1 ． had conqque ed．He exhorted t．im，loth 7 arvice and example，to build temples，thicatres，and Chately houfes．He caufd the fons of their nobility to be Str－ liructed in the liberal arts；1re kid tl cm tought the Latin language，and induced then to imitate the Io－ man modes of diefling，and living．＇ihus，by degrees， ilis barbarous people began to affume the lavarious manners of their conquerors，ad in time even outdic！ them in all the refinenients of Cenfual pleaf．re．For the feiccefs in Britain，Tiius was isluted emperor the t ；th time；but he did not long furvive his bonours，be： fized with a violent fever at a litule dillance fo m laome．Perceiving his death to approach，le der＇ared， that during，the whole courie of his life be linen but of ore action which he repented of；but that action he did not think proper to exprefs．Shortly atter，lie died $n$ t withrut fufpicion of treaclery f：um his fleother Domi－ tion，who had long withed to govern）in the 1 ftl year

## $\mathrm{R} O \mathrm{M} \quad\left[\begin{array}{lll}214\end{array}\right] \quad \mathrm{R} O \mathrm{M}$



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## $\mathrm{R} \circ \mathrm{M} \quad[215] \quad \mathrm{R} 0 \mathrm{M}$

Reme. was greatly increafed by this fuccels, of fhort duration. In order to difcover thofe who were accomplices with the adverfe party, he invented now tortures, fometimes cntting off the bands, at other times thrufting fire into the privities, of the people whom he fufpected of being his enemies. During thefe cruclies, he aggravated their guilt by hypocrify, never pronouncing fentence without a preamble full of gentlenefs and mercy. He was particularly terrible to the fenate and nobility, the whole body of whom he frequently threatened entirely to extirpate. At one time, he furrounded the fenatehoufe with his troops, to the great confternation of the fenators. At another, he refolved to amufe himfelf with their terrors in a different manner. Having invited them to a public entertainment, he received them all very formally at the entrance of his palace, and conducted them into a fpacious hall, hung round with black, and illuminated by a few melancholy lamps, that diffufed light only fufficient to fhow the hourors of the place. All around were to be feen nothing but coffins, with the names of each of the fenators written upon them, together with other objects of terror, and inftruments of execution. While the company beheld all the preparations with filent agony, feveral men, having their bodies blackened, each with a drawn fword in one hand and a fiaming torch in the other, entered the hall, and danced round them. Alier fome time, when the guefts expeited nothing lefo than inflant death, well knowing Domitian's capricious cruelty, the doors were iet open, and one of the fervants came to inform them, that the emperor gave all the company leave to withdraw.

Thefe cruclties were rendered ftill more odious by his luft and avarice. Frequently after prefiding at an execution, be would retire with the lewdelt prollitutes, and ufe the fame baths which they did. His avarice, which was the confequence of his profufion, knew no hounds. He feized upon the eftates of all againtt whom be could find the fmallett pretenfions; the moin trining
aetion or word againtl the majelty of the prince was fufficient to ruin the pofelior. He particularly exacted large fans from the rich Jews; who even then began to practife the art of peculation, for which they are at prefent fo remarkable. He was excited againt them, not only by avarice, but by jealoufy. A prophecy had been long current in the caft, that a perfon from the line of David thould rule the world. Whereupon, this fafpicious tyrant, willing to evade the prediction, commanded all the Jers of the lineage of David to be diligently fought out, and put to death. Two Cbriftiacs, grandfors of St Jude the apofle, of that line, were brought before hin ; but finding them poor, and no way ambitious of temporal power, he difmiffed them, coiffidaing them as objeets too mean for his jealoufy. However, his perfection of the Chrillians was moze fevere than that of any of his predeceffors. By his letters and edicts they were banifihed in feverad parts of the empire, and put to death wiuls ail the tortures of ingenious cruelty. The predictions of Chaldeans and allrologers alfo, concerning lis death, gave him moft rivient apnrelenfons, and kept him in the molt torratnaing difpuietude, As he approached towards the end of his reign, he would permit no criminal, or prifoner, io lre bronght into his prefence, till they were bound in fuch a matiner as to be incapable of injuing
him ; mind he generally fecuted their chains in his own hands. His jealoufies incteafed to that degree, that he ordered the gallery in which he walked to be fet round with a pellucid ftone, which ferved as a mirror to reflect the perfons of all fuch as approached him from behind. Every omen and prodigy gave him frch anxiety.
$\underbrace{\text { Rome. }}$
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But a periud was foon to be put to this moniter's A conipitcruelty. Among the number of thofe whom he at once racy formcareffed and fufpected, was his wife Domitia, whom ed againft he had taken from Elius Lama, ber former hufband. him. This woman, however, was become obnoxious to him, for having placed her affections upon one Paris, a player; and he refolved to difpatch her, with feveral others that he either hated or fufpected. It was the tyrant's method to put down the names of all fuch as he intended to deflroy in his tablets, which he kept about him with great circumfpection. Domitia, fortunately happening to get a fight of them, was ftruck at finding her own name in the catalogue of thofe fated to deftruction. She flowed the fatal lift to Nurbanus and Pctronius, prefects of the pretorian bands, who found themfelves fet down; as likewife to Stephanus, the comptroller of the houfehold, who came into the confipiracy with alacrity. Parthenius alfo, the chief chamberlain, was of the number. Thefe, afier many confultations, deterrained on the firt opportunity to put their defign in execution; and at length fixed on the $18: \mathrm{h}$ day of September for the completion of their attempt. Domitian, whofe death was every day foretold by the aitrologers, who, of confequence, mult at laft be right in their predictions, was in fome meafure apprehenfive of that day; and as he had been ever timorous, fo he was now more particularly upon his guard. He had fome time before fecluded himfelf in the moft fecret receffes of his palace; and at midnight was fo affrighted as to leap out of his bed, inquiring of his attendants what hour of the night it was. Upon their falflly affuring him that it was an hour later than that which he was tanght to apurehend, quite tranfported, as if all danger was paft, he prepared to go to the bath. Juft then, Parthenius his chamberlain came to inform him that Stephanus the comptroller of his houfehold defired to fpeak to him upon an affair of the utino: importance. The emperor having given orders that his attendants chould retire, Stephanus entered with his hand in a fcarf, which he had worn thus fur fome days, the better to conceal a dagger, as none were permitted to approach the emperor except ummed.He hegan by giving information of a pretended comfuiracy, and erhibited a payer in which the particulars were fpecified. While Domitian was reading the con-He $3:-m$. tente with an eager curiofity, Stephanus drew his darg- d rect. ger, and itruck him in the groin. The wound not being mortal, Domitian caught hold of the allabiur, and thew him upon the ground, calling ont for aflatance. He demanded alfo his fword, that was ufirally pliced under bis fillow; and a boy who attended in the partmert rumaing to fetch it, found oniy the faciouard, for Parthenies had previoully remosed the blade. 'Thas fruggle with Stephanus ftill continued: Domitias teiil kept him under, and at one time attempted to wred the dazger from his hand, at anutber to tear out has eyes -rrith his fingers. But Parthenius, with bi: fecedinat, a glariator, and two fubaltern officers, nor: ooming ich rat all furioully upon the emperor, and difyatreed hivi

## R O M [ 216 ] 1 K O 11

Rame. with many wounds. In the mean time, iome of the otlicers of the guard being alarmed, came to his afliftance, but tuo late to fave him; 'however, they dew Stephatus on the fot.

When it was publicly known that Domitian was flain, the joy of the fenate was fo great, that being affembled with the utmoll hafte, they beg:n to load his memory with every reproach. His flatues were commanded to be taken down; and a decree was made, that all his infcriptions thould be erafed, his name ftruck out of the regiters of fame, and his funeral omited. The people, who now took little part in the affairs of government, looked on his death with indifference ; the foldiers alone, : hom he had loaded with favours, and enriched by largeffes, fincercly regretted their benefactor. The fenaie, therefore, refolved to provide a fucceffor before the army could have an opportunity of taking the appointment upon themfelves: and Cocceius Nerva was choten to the empire the very day on which the tyrant was flain.

Nerva was of an illuttrious family, as moft fay, by birth a Spaniard, and above 65 years old when he was called to the throne. He was, at that time, the mon remarkable man in Rome, for his virtues, moderation, and refpect to the laws; and be owed his exaltation to the blamelefs cor duct of his furmer life. When the fenate went to pay b:m their fubmifions, he received them with his accufomed humility; while Arius Antonius, his mol intimate friend, having embraced him with great fumiliarity, congraculated him on his acceffion to the enpire : and indeed no emperor had ever fhewn himfelf more wortly of the throne than Nerva; his only fault being that he wa, too indulgent,
and often made a prey by lis infidious courtiet.

However, an excefs of incul ence and humanity were faulis that Pome could eafily pardon, after the crueltics of fuch an emperce: *s Domitian. Being long accuftomed to tyranny, tley reg-"ied Nerve's gentle reign with rapture, and even gave his inbecility the name of benevolence. Upon coming to the thisone, he folemnly fwore that no lenator of Rome flould be 1'th to death by his command, during his reign, though they gave ever to juft a caufe. He conferred great favours, and beflowed large gifts, upon his particular friends. His liberulity was to exte:five, that, upon his tind promotion to the empire, he was confrained to fell tis gold and tilver plste, with his other itch morenbles, to enable him to continue his hibcralitic. He releafed the citios of the empire from many fevere impofitions, w. ich had been laid upon them by Vcfpufian ; tock off a rimorous tribute, which had been laid upon carriages; and relfored thofe to their property who bad been unjufly uiffooftefied by Domitian.
During his flort reiga he made feveral good laws. Ife particularly probibited the caltration of male chialdrea; which had been likewife condemned by in predeceffor, but not wholly removed. He put-all thofe flaves to death who had, during the latt reizn, informed againtt their maffers. Fic permitted no flatues to be erefted to honour him, and convertal into money fuc') of Domitian's as had been frared by the fenate. He fold many rich robes, and much of the fplendid firniture of the palace, and retrenched fever.l unreafonable expences at court. At thie faroe time, he had fo Jettle regard for monev, that when Herodes Atticus,
one of his [ious-d, hid found a larin treafure, and wrote to the ermperor how to cipe of it, he reccived for anfwer, that lee aight ufe u; at tie nitiser liill informing the empero: th $t$ it tal a furtwe too luge for a private perfun, Nerva, aimini g lis ho.ns? y , wrote him word, that then he misht al ?

A life of fucli generolity anid mildne's was not, however, without its enenies. Calpumius Claffos, with fome others, formed a dingerous conljiracy to defroy him; but Nerva moull uie no tiverity: he refed fatisfied with banithing thofe who were culoable, though the femate were for inflicting more rigorous punifiments. But the moft dangerous infurr-Ction anain:f his interefts was from the pratorian bands; who, headed by Calparius Olianus, inffied upon revenging the late emperor's death, whofe memory was nill dear to them from his freçuent liberalities. Nerva, whofe kindnefs to good men rendered bim ftill more obnoxious to the vicious, did all in his power to llop the progrel's of this infurrection; he prefented himfelf to the mutinous foldiers, and, opening his bofom, defired them to firike there, rather than be guilty of to much injullice. The foldiers, however, paid no regard to lis remonftrances; but, feizing upon Petronius and Parthenius, fiew them in the moft ignominious manner. Not cowtent with this, they even compelled the emperor to approve of their fedition, and to make a fpeech to the people, in which he thanked the cohorts for their fixelity. So difagreeable a conftraint upon the emperor's inciinations was, in the end, atiended with the moit happy effects, as it caufed the adoption of Trajan to fucceed him in the empire. Nerva perceived that in the prefent turbulent Adopis difpofition of the times, he ftood in need of an alfiftant Trajan as in the empire, who might flate the fatigues of govern- his iucce. ment, and contribute to keep the licentious in awe. For ${ }^{\text {for. }}$ this purpofe, fetting afide all his own relations, he fixed upon Ulpius Trajan, an utter Aranger to his family, who was then governor in UPper Cermany, to fucceed him. Having put his determination in execulion, and performed the accuftomed folemnities, he inftantiy fent off ambaffadors to Cologne, where Trajan then repided, intreating his affiffance in punifhing thofe from whem he had recelved fuch an infult. The adoption of this admirable man, proved fo great a curb to the licenticufnefs of the foldiery, that they continued in perfict obedience during the reit of th: reign ; and Calparius being fent to him, was, by his command, cither baniiled or put to death.

The adopting Trajan was the laft public act cfDeath i Nerva. In about tliree months after, havi \& put him-iverva, felf in a violent paffion with one Regu us a fenator, ho was feized with a fever, of wbich he Mortiy after died, after a fhort reign of one year four months and nine days. He was the firft foreign enperor who reigned in Fiome, and juitly reputed a prince of grent sen rofity and moderation. He is alfo celcorated tor his wiflom, though with lefs reafon, the greateft inllance lee gave of it, during bis reign, being in the choice of his fucceffor.

Trajan's family was originally from Italy, but he him- Great 4 : felf was horn in Seville it Spain. He very carly ac-1 ties of companied his father, who was a general of the Ro-Ttajan mans, in his expeditions along the Euphrates and the Thine; and while yet very young, acquired a confiderable reputation for military accomplifhments. Ife enused his body to fatigue; he madc lony murche on

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fort ; en 1 laboured to acquire all that fill in war which was neceffary for a commander. When he was made gereral of the army in Lower Germany, which was one of the moft confiderable employments in the empire, it made no alteration in bis manners or way of living; and the commander was feen noway differing from the private tribune, except in his fuperior widom and virtues. The great qualities of his mind were accompanied with all the advantages of perf 1 n . His budy was majeftic and rigorous; he was at that middle time of life which is happily tempered with tle warmth of youth and the caution of age, being 42 years old. To thefe qualities were added, a modefly that feemed peculiar to bimfelf alone; fo that monkind found a plcature in praifing thofe accomplifhments of which the pofiefor fremed no way conlcious. Upon the whole, Trajan is diftinguifled as the greateft and the bett empetor of Romz. Oihers might have equalled him in war, and fome might have been his rivals in clemency and goodnefs; but he feems the only prince who united thele talunts in the grea:eft perfection, and who appears equally to engage our admiration and onr regard. Lep $^{7}$ on being informed of the death of Nerva, he prepared to return to Rome, whither he was invi.ed by the united intreaties of the fate. He therefore legan his march with a difcipline that was for a long time unknown in the ammies of the empire. The countries through which be paffed were neither ravaged nor taxel. ar.d he entered the city, not in a triumphant manner, though he had deferved it often, but on foot, attended by the civil o.ficers of the fate, and followed by his foldiers, who marched filerily forward with modelly and refee t. It would be tedious and unneceflary to enter into a detail of this good monarch's labours for the flate. His application to bulinefs, his moderation to his enemies, his morefty in exal:ation, his liberality to the deferving, and hisfru, ality in his own expences; thefe have all been the furjeed of panegyric among his contemposaries, and they continue to be the admiration of potterity. Upon giving the prefeet of the pretorian band the fword, according to cuftom, he made ufe of this remarkable exprofion, ${ }^{4}$ Take this fword, and ufe it, if I have merit, for me; if otherwife, again't m=." Afier which he ade A, That he who gave laws was the firt who was botnd to obferve them. His failings were his love of women, which, however, never hurried him beyond the bounds of decency ; and his immoderate paffion for war, to which he liad been bred up from his childhood. The Erft war he was engaged in afier his coming to the throne was with the Dicians, who, during the reign of Domitian, had committed num'serlefs ravages upon the provinces of the empire. He therefore raifed a powerful army, and with great expedition marched into thofe barbarous countries, where he was vigoroully oppofed
by Decebalus, the Dacion king, who for a long time withfood his boldeft efforts; but was at laft entirely reduced, and his kingdom made a Roman province, Bee Dacta. At his return to Rome, he entered the eity in triumph; and the rejoicings for lis vietories latted for the fpace of 120 days.

Having thus given peace and profperity to the empire, Trajan continued his reign, loved, honoured, and almoft adored, by his fubjects. He aciorned the city with public buildings; lie freed it from fuch men as Eived by their vices; he enter zined pesfons of merit

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with the utnon familiarity ; and fo little foared his encmies, that he could fcarcely be induced to fuppofe that he had any.

It had been happy for this great prince's memory, ife 357 reif he had fhown equal clemency to all his fubjects; but, cutes the about the ninth year of his reign, he was perfuaded to Chrittacs louk upon the Christians with a fufpicious eye, 'The extreme veneration which he profufid for the religion of the empirc, fet bim feluloufly to oppole every innoration, and the progrefs of Chriftianity feemed to alarma him. A law had for fome time before been pafied, in which all Hetcrix, or focieties diffenting from the cfablinhed religion, were confidered as illegal, being reputed nuriecies of impofture and fedition. Under the finction of this law, the Chritians were perfecuted in all parts of the emire. Gieat numbers of then were put to death, as well by popular tumults as by edicts and judicial proceedings. However, the perfecution ceafed after fome time; for the emperor having advice from Pliny, the proconful in Bithynia, of the innocence and fimplicity of the Cluritians, and of their inoffenfive and moral way of living, he fuffended their punifiment: But a total ftop was put to them upon Tiberianus the governor of Palcftine's fending him word, That he was wearied out with executing the laws againft the Galileans, who crouded to execution in fuch mulitudes, that he was at a lofs how to procced. Upont this information, the emperor gave orders, that the Chriftians thould not be fought after; but if any offered themlelves, that they thould fuffer. In this manner the rage of perfecution ceafed, and the emperor found leifure to turn the force of his arms againft the Armenians ard Parthians, who now beyan to throw off all fubmifion to Rome.

While he was employed in thefe wars, there was a Infurtec. dreadful infurrection of the Jews in al! parts of the em - tion of the pire. This wretched people, ftill infatuated, and ever Jews. expesting fume figual deliverer, took the advantage of 'Trajan's ablence in the cuft to maffacre all the Grecks and $1 t$-mans whom they got into their power, without reluctance or mercy. I his rebellion fitit began in Cy rene, a Romon province in Africa; from thence the flame extended to Esypt, and next to the iflind of Cyprus. Thefe places were in a manner difpeopled with ungovernable fury. Their barbarities were fuch, that they ate the fleth of their enemies, wore their Akins, fiwed them afunder, eaft them to wild beatts, made them kill each other, and ftudied new torments by which to deftroy them. However, thele cruelties were of no long duration : the governors of the refpective provinces making head againft their turmultuous fury, foon treated them with a retaliation of cruelty, and put them to death, not as human beings, but as outrageous pefts to fociety. As the Jews had practifed their cruclties in Cyprus particularly, a law was publicly enacted, by which it was mace capital for any Jew to fet foot on the ifland.

During thefe bloody tranfactions, Trajan was pro-succellet of fecuting his fucceffer in the calt. His firit march was Trajan in into Armenia, the king of which country had difclaimed the eas. $2 l l$ alliance with liome, and received the enfigns of royalty and dominion from the monarch of Parthia. However, upon the news of Trajan's expedition, his fears were fo great, that be abandoned his country to the invaders; while the greateft part of his governors and

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Remes nobility came fubmiffively to the emperor, acknowledging themfelves his fubjects, and making him the mort coftly prefents. Having in this manner taken poffefion of the whole country, and gotten the king into his power, he marched into the dominions of the king of Parthia. There entering the opulent kingdom of Mefopotamia, he reduced it into the form of a Roman province. From thence he went againf the Parthians, marching on foot at the head of his army ; in this manner croffing the rivers, and conforming to all the feverities of difcipline which were impofed on the meanefl foldier. His fucceffes againft the Parthians were great and numerous. He conquered Syria and Chaldea, and took the famous city of Babylon. Here, attempting to crofs the Euphrates, he was oppofed by the enemy, who were refolved to ilop his paflage : but he fecretly caufed boats to be made upon the adjoining mountains; and bringing them to the water fide, paffed his army with great expedition, not, however, without great nlaughter on both fides. From thence he traverfed traets of country which had never before been invaded by a Roman army, and feemed to take a pleafure in purfuing the fame march which Alexander the Great had formerly marked out for him. Having paffed the rapid ftreams of the Tligris, he advanced to the city of Ctefiphon, which he took, and opened himfelf a pallage into Perfia, where he made many conquefls, that were rather fplendid than ferviceable. After fubduing all the country bordering on the Tigris, he marched fouthward to the Perfian gulf, where he fubdued a monarch who poffeffed a confiderable ifland made by the divided ftreams of that river. Here, winter coming on, he was in danger of lofing the greateft part of his army by the inclemency of the climate and the inundations of the river. He therefore with indefatigable pains fitted out a fleet, and failing down the Perfian gulf, entered the Indian ocean, conquering, even to the Indies, and fubduing a past of them to the Roman empire. He was prevented from purfuing further conquefts in this diftant country, both by the revolt of many of the provinces he had already fubdued, and by the fcarcity of provifions, which feemed to contradict the reports of the fertility of the countries he was induced to invade. The inconveniences of increafing age alfo contributed to damp the ardour of this enterprife, which at one time he intended to purfue to the confines of the earth. Returning, therefore, along the Perfian gulf, and fending the fenate a particular account of all the nations he had conquered, the names of which alone compofed a long catalogue, he prepared to punifh thofe countries which had revolted from him. He began by laying the famons city of Edefia, in Mefopotamia, in afhes; and in a fhort fpace of time, not only retook all thofe places which had before acknowIedged fubjection, but conquered many other provinces, fo as to make himfelf maller of the moft fertile kingdoms of all Afia. In this train of fucceffes he fearce met with a repulfe, except before the city Atra, in the deferts of Arabia. Wherefore judging that this was a proper time for bounding his conquafts, he refolved to give a mafler to the countrics he had fubdued. With this refolution he repaired to the cily Ctefipton, in Perfia; and there, with great ceremony, crowned P'arthamafiates king of Parthia, to the great joy of all his Euljefts. He eflablifued another ling alfo orcr the
kingdom of Albania, near the Cafpian fea. Then Rome. placing governors and lieutenants in other provinces, he refolved to return to his capital in a more magnificent manner than any of his predeceffors had done before him. He accordingly left Adrian general of all his forces in the eaft ; and continued his journey towards Rome, where the moft magnificent preparations were made for his arrival. But he had not proceeded farther than the province of Cilicia, when he found himelf too weak to travel in his ufual manner. He therefore caufed himfelf to be carried on (hip-board to the city of Seleucia, where he died of apoplexy, having been once before attacked by that dilorder. During the time of his indifpofition, his wife Plotina conftantly attended near him; and, knowing the emperor's diflike to Adrian, it is thought forged the will, by which he was adopted to fucceed.

Trajan died in the 63 d year of his age, after a reign He dies, of nineteen years fix months and fifteen days. How and is fuchighly he was efteemed by his fubjects appears by their ceeded by manner of bleffing his fucceffors, always wifhing them Adrian. the fortune of Auguftus, and the goodnefs of Trajan. His military virtues, however, upon which he chiefly valued himfelf, produced no real advantages to his country; and all his conquefts difappeared, when the power was withdrawn that enforced them.

Adrian was by defcent a Spaniard, and his anceffors were of the fame city where Trajan was born. He was nephew to Trajan, ald married to Sabina his grand-niece. When Trajan was adopted to the empire, Adrian was a tribune of the army in Mrefia, and was fent by the troops to congratulate the emperor on his advancement. However, his brother-in-law, who defired to bave an opportunity of congratulating Trajan himfelf, fupplied Adrian with a carriage that broke down on the way. But Adrian was refolved to lofe no time, and performed the reft of the journey on foot. This affiduity was very pleafing to the emperor; but he difliked Adrian from feveral more prevailing motives. His kinfman was expenfive, and involved in debt. He was, befides, inconftant, capricious, and apt to envy another's reputation. Thefe were faults that, in Trajan's opinion, could not be compenfated either by his learning or his talents. His great dkill in the Greek and Latin languages, his intimate acquaintance with the laws of his country and the philofophy of the times, were no inducement to Trajan, who, being bred limfelf a foldier, defired to have a military man to fucceed him. For this reafon it was that the dying emperor would by no means appoint a fuccefor; fearful, perhaps, of injuring his great reputation, by adopting a perfon that was unworthy. His death, therefore, was concealed for fome time by Plotina his wife, till Adrian had four ded the inclinations of the army, and found them firm in his interefts. They then produced a forged inArument, importing that Adrian was adopted to fucceed in the empire. By this artifice he was elceted by all orders of the flate, though then abfent from Rome, being left at Antioch as general of the forces in the eaft.

Upon Adrian's election, his firf care was to write the fenate, excufing himfelf for afluming the cmpire without their. previous approbation; inpputing it to the hafly zeal of the army, who rightly judged that the fenate ought not long to remain without a bead. He

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then began to purfue a courfe quite oppofite to that of his predeceffor, taking every method of declining war, and promoting the arts of peace. He was quite fatisfied with preferving the ancient limits of the empire, and feemed no way ambitious of extenfive conqueit. For this reafon he abandoned all the conquefls which Trajan had made, judging them to be rather an inconvenience than an advantage to the empire; and made the river Euphrates the boundary of the empire, placing the legions along its banks to prevent the incurfons of the enemy.

Having thus fettled the affairs of the eaf, and leaving Severus governor of Syria, he took his journey by land to Rome, fending the alhes of Irajan thither by fea. Upon his approach to the city, he was informed of a magnificent triumph that was preparing for him; but this he modeftly declined, defiring that thofe honours might be paid to Trajan's memory which they liad defigned for him. In confequence of this command, a moft fuperb triumph was decreed, in which Trajan's flatue was carried as a principal figure in the proceffion, it being remarked that he was the only man that ever triumphed after he was dead. Not content with paying him thele extraordinary honours, his afhes were placed in a golden urn, upon the top of a column 140 feet high. On this were engraven the particulars of all his exploits in baffo relievo; a work of great labour, and which is ftill remaining. Thefe teftimonies of refpect to the memory of his predeceffor did great honour to the heart of Adrian. His virtues, however, were contrafted by a Atrange misture of vices; or to fay the truth, he wanted lirength of mind to preferve his general rectitude of character without deviation. As an emperor, however, his conduct was molt admirable, as all his public tranfactions appear dictated by the foundeft policy and the molt difinteretted wildom. But thefe being already enumerated under the article Adrian, it would be fuperfluous to repeat them in this place. He was fucceeded by Marcus Antoninus, afterwards furnamed the Pious, whom he had adopted fome time before his death. Sce ANTONINUS Pius.

From the beginning of the reign of Antoninus Pius,
we may date the decline of the Roman empire. From the time of Cefar to that of Trajan, icarce any of the emperors had either abilities or inclination to extend the limits of the empire, or even to deiend it against the barbarous nations who furrounded it. During all this fpace, only fome inconfiderable provinces to the northward of Italy, and part of the ifland of Britain, had been fubjugated. However, as yet, nothing was loil ; but the degeneracy and corruption ot the people had fown thole leeds of dilfolution which the empire quickly began to feel. The diforders were grown to fuch an height, that even Trajan himlelf could not cure them. Indeed his ealtern conqueits could fearce have been prelerved though the republic had been exitting in all its glory ; and therefore they were quietly rcfigned by his fucceffor Adrian, as too ditant, dilaffected, and ready to be overrun by the barbarous nacions. The province of Dacia, being nearer to the centre of government, was more eafily preferved; and of confequence remained for a long time fubject to Rome. During the 23 years of the reign of Antoninus, fetr remarkable events happened. The hiltorians of thote times are exceflive in their praifes of his juitice, generofity, and other virtues, both public and private. He put a ftod to the perfecution of the Chriftians, which raged in the time of Trajan and Adrian, and redaced the Brigantes, a tribe of Britons, who had revolted. During his reign, feveral calamities befel the empire. The Tioer, overflowing its banks, laid the lower part of Rome under water. The inundation was followed by a fire, and this by a famine, which fwept off great numbers, though the emperor took the utmoft care to fupply the city from the moft diftant provinces. At the fame time the cities of Narbonse in Gaul, and Antioch in Syria, together with the great fquare in Carthage, were deftroyed by fire; however, the emperor foon reftored them to their former condition. He died in the year 163 , univerfally lameated by his fubjects, and was fucceeded by Marcus Aurelius, furnamed the Philofopher, whom he had adopted towards the latter end of his reign.

The traniactions of this emperor the reader will find related under the article ANTONINUS Philofopius (A).

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(A) As, after the death of Marcus Aurelius, the Roman empire declined very faft, it may not be amifs here to give fome account of the military and other eftablifhments of the Roman emperors. Mr Gibbon olferves, that, in the times of the commonwealth, the ufe of arms was confined to thofe who had fome property to defend, and an interett in maintaining the laws which were propofed to be enaeted. But, as the public freedom declined, and war became dergraded into a trade, thofe who had the property of the country chofe rather to hire others than to expofe their own perfons, as is the cafe with our modern armics. Yet, even atier all confideration of property had been laid afide among the common foldiers, the officers continued to be cholen from among thofe who had a liberal education, together with a good flare of properiy. However, as the common foldiers, in which the ftrength of an army conlits, had now no more of that virtue called patriotifm, the legions which w.re formerly almot invincible, no longer fought with the farae arbour as before. In former times, the profelion of a foldier was more honourable than any other; but, when the foldiers eame to be looked upon as hirelings, the honour of the profefinn funk of courfe, and, by this means, one of the trongef matives which the foldiers had to fubmit to their fevere difcipline, and exert themfelves againt their enemies, was removed. Ois. the very firft entrance of a foldier into the Roman fervice, a folemn oath was adininiftered to him, by which he engaged never to defert his ftandard; to fubmit his own will to that of his linaders, and to facrifice his lifee for the fafety of the cmperor and the empire. The attachmont which the Romans had to their liandards was indeed aftonihing. The golden ergle, which appeared in the froat of the le, ion, whls almort an objet of aduration with thers; and it was eltecmerl impious, as well as ignominious, to abandon that facred en-

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some. ITAfct the death of Mafous Aurelines, hits fon Consmodus farccecded to the imperial throne without oppofificun.) He wascin every refpect unworthy of his fa-
ther cerand for prone to vice, that he was geaerally be-l Rome.t liered to have been the fon, not of Rlarcus Aurolius, but of a celobrated gladiator, with whomy he emprefs
fim in the tithe of danger. The centurions had a rigit to purifh with blows, the generals with death; and it was an inflextble maxim of the lioman dilcipline, that a good loldier fhould dread his officers much more than $t^{\text {the }}$ enemy.

Notswithtanding all this, fo fenible were the Romans of the infufficiency of mere valour without ©kill, that military exercifes were the unremitted object of their dilcipline. The recruits and young lolders were consanily trained both in the morning and evening; and even the veterans were not exculed trom the daily repetition of their exercife. Large theds were erected in the winter-quarters of the troops, that thele uleful labuurs might not be interrupted by tempeftuous weather, and the weapons-ufed in thefe imitations of war were always twice as heavy as thofe made ufe of in real action. The foldiers were diligently inftructed to march, to run, leap, fiwim, catry heavy burdens, and handle every fpecies of weapon either for offence or defence; to form a variely of evolutions; and to move to the found of thutes in the pyrrlic or martial dance. It was the policy of the ableit generals, and even of the emperors themfelves, to encourage thefe military ftudies. by their prefence and example; and we are informed that Adrian, as well as Irajan, frequently condefcended to inftruct the unexperien. ced foldiers, to reward the diligent, and fometimes to difpute with them the prize of fuperior itrength and dexterity. Under the reigns of thofe princes, the fcience of tactics was cultivated with fuccefs; and, as long as the empire retained any vigour, their military intructions were refpected as the mof perfect model of Roman difcipline.

From the foundation of the city, as the Tomans had in a manner been continually engaged in war, many, alterations had taken place in the conititution of the legions. In the time of the emperors, the heavy-armed infarstry, which compofed its principal ftrength, was divided into 10 cohorts and 55 companies, under the orders of a corretpondent number of tribunes and centurions. The firt cohort, which always clamed the poit of honour and the cuftody of the eagle, was formed of 1105 foldiers, the moft approved for valour and fidelity. The renasining nine cohorts conitited each of 555 ; and the whole body of legionary infantry confifted of 6100 mea. Their arms were uniform, and excellently adapted to the nature of their tervice; an open helmet with a lofty creft; a breafplate or coat of mail; greaves on their lejs, and a large buckler on their left arm. Their Juckler was of an oblong and concave figure, four feet in length, and two and an half in breadth; framed of a light. wood, covered with a bull's hide, and ftrongly guarded with brafs plates. Befides a lighter lpear, the legionay carried the pilum, a ponderous javelin about fixfeet long, and terminated by a maffy triangular point of theek 18 inches in length. This weapon could do execution at the diftance of 10 or 12 paces; but its ftroke was fo powerful, that no cavalry durf venture within its reach, and lcarce any armour could be formed proof againtt it. As fonn as the Roman had daited his pilum, he drew his fword, and ruihed forward to clofe with the enemy, It Whas a thort well-tempered Spanifh blade with a double etge, and equally calculated for the purpoles of pulhing and flriking; but the loldier was always initructed to prefer the former ufe of his own weapon, as his body reruained thereby the lefs expofed, while at the fame time he inthicted a more dangerous wound on his adverfary. The legion was ufually drawn up eight deep; and the regular diftance of three feet was left between the files and ranks. Thus the toldier poffefled a fiee fpace for his arms and motions; and fufficient intervals were allowed, through which feafonable reinforcernents might be introduced to the relief of the combatants. The cavalry, without which the force of the legion remained imperfect, was divided into ten troops or fquadrons: the firit, as the companion of the firft cohort, confifted of 132 men; whilit each of the other nine amounted only to 66. The entire ellablifhment formed a body of 726 horfe, naturally connected with its refpeclive legion; but occafomally acting in the line, and compoling a part of the wings of the army. Jhe cavalry of the ancient republic was compofed of the nobleft youths of Pome and Italy, who, by performing their milatary fervices on horfeback, prepared themfelves for the offices of fenator and con c ] ; but afier the alteration of manners and government which took place at the end of the commonwealth, the molt wealhy of the equeftrian order were engaged in the adminitration of juftice and of the revenue; and, whenever they embraced the profeflion of arms, they were immediately entrufted with a troop of horfe or a colort of foot, and the cavalry, as well as the infantry, were rectuited from the provinces. The horfes were bred for the molt part in Spain, or in Cappadocia. The Iaman troopers defpifed the complete armour which encumbered the cavalry of the eafl. Inftead of this, their arms confited only of an hamet, on oblong fhicld, lisht boois, and a coat of mail. A javelin and a long broad fword were thcir principal offenfive weapons. They feem to have borrowed the ufe of lances and iron maces from the harbarians.
Befides the legionaries, the Romans, efpecially in the times of the emperors, began to take auxiliaries into their pay. Confiderahle levies were regulatly made amon:g thofe procincials who had not yet attained to the rank, of Ruman citizens. Many dependent princes and communitics, difperled round the fronticrs, were permitted, for a while, to hold their freedom and fecurity by the tenure of military fervice. Even felect troops of barbarians were co:n elled to entex into the fervice; which was afterwards found to be a moft deftructive expedient, not enly as it carried the Roman military fkill among barbarians who were othervife unacquainted with it, but it b. e thefe auxiliaries themfelves frequent opportunities of revolting, and at laft of dethroning the emperars at pleafure, and even of overturning the empire itfelf. The number of axxiliaries was feldom inferior to that of

Reme.
Fuufin1 was fuppofed to be intimater According to Mr. Gïbbon, however, Commodus was not, as has been reprefented, a tiger born with an inlatate thint of hu-
man blood, and capable from his infancy of the mon inhaman aztions. Nature had formed him of a weak, rather than a wicked difputition. His fimplicity and timidity
the legionaries themifelves. The braveft and mof faithful bands among them were placed under the command of preicets and centuriohs, and feverely trained in the arts of Roman dicicipline; but the far greater part retained thole arms which they had ufed in their native country. By this inflitution, each legion, to whom a certain number of auxiliaries was allotted, contained within ittelf every fpecies of lighter troops, and of miffile weapors ; and was capable of encoustering every nation with the advantages of its refiective arms and difcipline. Nor was the legion deffitute of what, in midern language, would be tyled a train of artillery. This confited of 10 milis tazy engines of the largeit fize, and 56 fnitler ones; but ail of them, cither in an oblique or horizontal manner, dicharged foneses and darts with irrelidible violence.

The camp of a Roman legion prefented the appearance of a fortifed city. As foon as the fpace was marked out, the pioneers carefully levelled the ground, and removed every impediment that might interrupt its perfect regularity. Lts form was an exact quadrangle; and it may be computed that a fquare of 700 yards was fufficient for the encampment of 25,000 Romans, though a fimilar number of modern troops would expofe to the enemy a front of more than tre'le that extent. In the midft of the camp, the preeorium, or general's tent, arofe above the others; and the cavalry, infantry, and auxiliaries, had each their refpective flations appointed them. The freets were broad, and perfectly fraight; and a vacant fpace of 200 feet was lff on all fides between the tents and rampart. The rumpart itfelf was 12 feet high, armed with a line of frrong and intricate palifades, and defended by a ditch 12 feet deen and as much broad. This labour was performed by the legions themfelvee, to whom the ufe of the fpade and the pick-axe was no lefs familiar than that of the fword or pilum. Whenever the tumpet gave the fignal of departure, the camp was almoit inflantly broke up, and the troops fell into their ranks without delay or confufion. Befides their arms, which the foldiers farcely confidered as an incumbrance, they were laden with their kitchen-furniture, the inftuments of furtification, and pirovifions for many days. Under this weight, which would opp:efs a modera foldier, they were taught to advance by a regular itep, near 20 miles in fix hours. On the appearance of an enemy, they threw afide their baggage, and, by caly and rapid esolutions, converted the column of march into an order of battle. The flingers and archers birmilhed in the front ; the auxiliaries fornted the furft line, and weete feconded or futained by the legions. The cavalry covered the tlanks, and the military engiueers were placed in the rear.

The numbers of the Roman armies are not eafily calculated with any tolerable accuracy. We may compute, however, that the legion, which confilted of 6831 homans, might, with its attendant auxiiiaries, amount to $32,500 \mathrm{men}$. The peace eftabliflment of Adrian and his fueceffo-s was compofed of no fewer than 30 of thefe formidable brigades; and moit probably formed an army of 375,000 men. Infead of beirg confined within the walls of fortified cities, which the Romans confidered as the refuge of weaknefs or puflitanimity, the legions were encamped on the banks of the great rivers, and along the frontiers of the barbarians. Three legions were flufficient $f_{0}:$ Britain. The principal ftrength lay upon the Rit:ine and Danube, and confitted of 16 legiens, difpofed in the folloxing propartions : two in the Lower, and three in the Upper Gcrmany; one in Rhetia; one in Noricurn; four in Panmonia; three in Nexia; and two in Dacia. The defence of the Eurhrates was intruted to eight legions, fix of whom were placed in Syria, and the other two in Cappodocia. With regard to Egyp!, Africa, and Spain, as they were far removed from any impotant feene of war, a fingie legion maintained the domettic tranquillity of each of thofe great prorinces. Ialy was defended by the cily cohorts and pretorian guards former'y mentioned. Thefe differed rothing from the legions in their arms and inflitwiens, except in a more fplendid appearance, an:d a lefs rigid difcipline.

The R -man navy, though finficient for every ufeful purpofe of government, never feemed arequate to the greatnefs of the empire. The policy of the emperors was directed only to preferve the reaceful domincion of the Mediterranean fea, which was included within their demimions, and to protect the commerce of their fubjects. Tivo permanent flects were ffationed by Auguftus, one at linvenna on the Adriatic, and the other at Mifenum in the bey of Naples. A very confiderable force was alio fationed at Frejus in Provence; and the Euvine was guarded by 40 fhi 5 and 3000 foldiers. To all thefe we may add the fleet which preferved the coremsmicatiun between Gaul and Britain, and a great vumber of veffels contortly maintained on the Rline and Danuhe to harkis the enemy, or intercept the paf:ge of the barbarians. The whole military eitablithmert by fea and land amounted to about $4,5,000$ men.

It was not, however, to this formidable pozer alone that the empire owed its greatnels. The policy of the laws 2 contributed as much to its fupport as the martial ettabli:hment itfelf. According to Mr Gibbon, though the pro* vinces might occafionally fuffer from the partial abufe of delegnted authority, the general principle of goverument was wife, fimple, and beneficent. Among thefe beneficent principles he reckons that of univerfal tokeration; but to this there were feveral exceptions: for the Britihh Druids were perfecuted and deftroved by the Romans on account of their religion; the Egyptians and Jews were fumetimes perfecuted; and the Chriftians were frequently fo, and that even under the very beft emnerors, Trajan and Marcus Aurelius. However, $2 s$ a very geneal toleram tion of religides fentiments did take place under the heatben emperurs of Rorae, we mult certainly look upon th' as one of the caufes of the profperity of the empire.

Another thing which greatly contributcd to the flyength and profperity of the cmpire, was the extending of the

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Rome. timidity rendered him the flave of his attendants, who gradually corrupted his mind: His cruelty, which at cruelty of Commodus.
habit, and at length became the ruling paftion of his foul." But, however this may be, it is certain that the actions of this emperor were flagitious almoft beyond first obeged the dictates of others, degenerated into
freedom of Rome to fo many people. "The narrow policy (Gays Mr Gibbon) of preferving, without any foreign mixture, the pure blood of the ancient citizens, had checked the fortune and haftened the ruin of Athens and Sparta. During the moft flourihing era of the Athenian commonwealth, the number of citizens decreafed gradually from about 30,000 to 21,000 . Iff, on the contrary, we fudy the growth of the Roman republic, we may difcover, that notwithftanding the inceffiant demands of swass and colonies, the citizens, who, in the time of Servius Tuilius, amounted to no more than 83,000 , were multiplied, before the end of the focial war, to the number of 463,000 ruen able to bear arms in the fervice of their country. When the allies of Rome claimed an equal fare of honours and privileges, the fenate preferred the chance of war to a conceffion; however, at laft, all the Italian flates, except the Samnites and Lucanians, were admitted into the bofom of the republic, and foon contributed to the ruin of public freedom. When the popular affemblies had been fuppreffed by the adminill ration of the emperors, the conquerors were diftinguifhed fronn the vanquilhed nations only as the firft and moft honourable order of fubjeats; and their increafe, however rapid, was no longer expofed to the fame dangers. Yet the princes who adopted the maxims of Auguftus, guarded with the fricteft care the dignity of the Roman name, and diffuled the ficedom of the city with a prudent liberality.
"Till the privileges of the Romans had been progreffively cxtended to all the inhabitants of the empire, an important diftinction was preferved between Italy and the provinces. The eftates of the Italians were exempted front taxes, and their perfons from the arbitrary jurifdiction of governors. From the foot of the Alps to the extremity of Calabria, all the natives of Italy were born citizens of Rome. The provinces of the empire were deftitute of any public force or conflitutional freedom. The free flates and cities, which had embraced the caufe of Rome, were infenfibly funk into real fevvitude. The public authority was everywhere engrefied by the minifters of the fenate and of the emperors, and that authority was abfolute. But the fame falutary maxims of government which had fecured the peace and obedience of Italy, were extended to the moft diftant conquefts. A nation of Romans was gradually formed in the provinces, by the double expcdient of introducing colonies, and of admitting the mof faithful and deferving provincials to the freedom of Rome.
"So fenfible were the Romans of the influence of language over national manners, that it was their mof ferious care to extend, with the progrefs of their arms, the ufe of the Latin tongue. The eaftern provinces, however, were lefs docile in this refpect than the weftern ones; and this obvious difference made a diftinction between the two portions of the empire, which became very remarkable when it begas to decline. Nor was the infuence of the Greek language and fentiments confined to the narrow limits of that once celebrated country. Their empire, by the progrefs of colonies and conqueft, had been diffifed from the Adriatic to the Euphrates and Nile. Afia was covered with Greek cities, and the long reign of the Macedonian kings had introduced a filent revolution into Syria and Egypt. In their pompous courts, thofe princes united the elegance of Athens with the luxury of the eaft; and the example of the court was imitated, at an bumble diffance, by the higher ranks of their fubjects. Such was the general divifion of the Roman empire into the Latin and Greek languages; to which we may add a third diffinction for the body of the natives in Syria, and efpecially in Egypt. The ufe of their ancient dialects, by fecluding them from the commerce of mankind, checked the improvements of thefe barbarians. The tlothful effeminacy of the former expofed them to the contempt, the fullen ferocioufnefs of the latter excited the averfion, of the Roman conquerors. They feldom defired or deferved the freedom of the city; and it is remarked, that more than 230 years elapfed after the ruin of the Ptolemies, before a native Egyptian was admitted into the Senate of Rome.
"The number of fubjects who acknowledged the laws of Rome, of citizens, of provincials, and of flaves, cannot now be fixed with fuch accuracy as the importance of the object would deferve. We are informed, that when the emperor Claudius exercifed the office of cenfor, he tock an account of $6,945,000$ Roman citizens; who, with the proportion of women and children, mult have amounted to about $20.000,000$ of fouls. The multitude of fubjeets of an inferior rank was uncertain and tluctuating : but after weighing with attention every circumfance which could influence the balance, it feems probable that there exifted, in the time of Claudius, about twice as many provincials as there were Roman citizens, of cither fex, and of crery age; and that the flaves were at leaft equal in number to the free inhabitants of the Roman world. The total amount of this imperfect calculation would rife to abort 120 millions of perfons; a degree of population which poffibly exceeds that of modern Europe, and forms the moft numerous fociety that has ever been united undcr the fame fyftem of government.
"Domeffic pence and union were the natural confequences of the moderate and comprehenfive policy embracel by the Romaris. The vanquifled nations, blended into one great people, refigned the hope, nay even the with, of refming their independence, and fcarcely confidered their own exifence as diftinct from the exitence of Rome. The effablifhed authority of the ensperors pervaded, without an eflort, the wide extent of their dominions, and "as exercifed with the fame facility on the banks of the Thames, or of the Nile, as on thofe of the Tiber The legions were deftined to ferve againft the public enemy, and the civil magillsate feldom required the aid of a military force.
"It was fcarcely poffible that the eyes of contemporaries fhould difcover in the public felicity the latent caufes of decay and corruption. This long pcace, and the uniform government of the liomans, introduced a flowe and. 2

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Rome. a parallel. Many very ftrange inftances of his cruelty are related by the ancients. He is laid to have cut afunder a corpulent man whom he law walking along the itreet ; partly, to try his own ttrength, in which he greatly excelled; and partly, as he himfeif owned, out of curiofity, to fee his entrails drop out at once. He took pleature in cutting off the feet, and putting out the eyes, of fuch as he met in his rambles through the city; telling the former, afier he had thus maimed them, that now they belonged to the nation of Monopodiu; and the latter, that they were now become Lufcinui, alluding to the word lufcus, "one-eyed." Some he murdered becaufe they were negligently dreffed; others, becaufe they feemed to be trimmed with too much nicety. He pretended to great gkill in furgery, efpecially at letting blood: but iometimes, inftead of eafing by that means thofe whom he vifited, or who were prevailed upon to recur to him, he cut off, by way of diverfion, their ears and nofes. His lewdnefs and debaucheries were equally remarkable, and equally infamous. However, he is faid to have been exceedingly well fkilled in archery, and to have performed incredible feats in that way. He excelled all men in ftrengh; and is faid to bave run an elephant through with his fpear, and to have killed in the amphitheatre 100 lions, one after another, and each of them at one blow. Forgetful of his dignity, he entered the liits with the common gladiators, and came off conqueror 735 times; whence he often fubfribed himfelf in his letters, the eonqueror of 1000 gladiators.

The public tranfactions of this reign were but very Rome. few. Soon after his father's death, Commodus concluded a peace with the Marcomanni, Quadi, \&c. on ${ }_{\text {He con- }}^{364}$ the following conditions. s. That they fhould not cludes a fettle within five miles of the Danube. 2. That they peace with Ghould deliver up their arms, and fupply the Romans the barbawith a certain number of troops when required. 3 . rian: That they fhould allemble but once a month, in one placc only, and that in prefence of a Roman centurion. 4. That they thould not make war upon the Jazyges, Buri, or Vandals, without the confent of the people of Rume. On the other hand, Commodus promifcd to abandon, which accordingly he did, all the cattles and fortrelies held by the Romans in their country, excepting fuch as were within five miles of the Danube. With the other German nations, whom his father had alinolt entirely reduced, he concluded a very dilhonourable peace; nay, of lome he purchafed it with large fums of money.

Soon after the return of the emperor to Rome, his filler Lucilla, percciving that he was univerfally abhorred on account of his cruelty, formed a confíiracy againft his life. Among the confpirators were many fenators of diftinction. It was agreed among them that they fhould fall upon the emperor while he was going to the amphitheatre through a narrow and dark paffage; and that Claudius Pompeianus, to whom Lucilla had betrothed her daughter, thould give the firft blow. But be, inflead of flriking at once, flowed him the naked dagger, and cried out, "This prefent the fenate fends you:"
fecret poifon into the vitals of the empire. The minds of men were gradually reduced to the fame level ; the fire of genius was extinguifhed, and even the military fpirit evaporated. The natives of Europe were brave and robuft. Spain, Gaul, Britain, and Illyricum, fupplied the legions with excellent foldiers, and conflituted the real ffrength of the monarchy. Their perfonal valour remained; but they no longer poffeffed that public courage which is nourilhed by the love of independence, the fenfe of national honour, the prefence of danger, and the habit of command. They received laws and governors from the will of their fovereign, and trufted for their defence to a mercenary army. The pofferity of wheir boldeft leaders were contented with the rank of citizens and fubjects. The moft afpiring fpirits reforted to the court or ftandard of the emperors; and the deferted provinces, deprived of political itrength or union, infenfibly funk into the languid indifference of private life.
" The love of letters, almoft infeparable firm peace and refinement, was fahionable among the fubjects of Adrian and the Antonines; who were themfelves men of learning and curiofity. It was diffuled over the whole extent of their empire; the moft northern tribes of Britons bad acquired a tafte for rhetoric ; Homer as well as Virgil were tranferibed and ftudied on the banks of the Rhine and Danube; and the moft liberal rewards fought out the fainteft glimmerings of literary merit. The fciences of phyfic and aftronomy were cultivated with fome degree of reputation ; but, if we except Lucian, an age of indolence paffed away without producing a fingle writer of genius who deferved the attention of pofterity. The authority of Plato, of Ariftotle, of Zeno, and Epicurus, fill reigned in the fchools; and their fyilems, tranfmitted with blind deference from one generation of dif. cioles to another, precluded everv gencrous attempt to correct the errors or enlarge the bounds of the human mind. The beauties of the poets and orators, inftead of kindling a fire like their own, produced only fervile imitations; or, if any ventured to deviate from thefe models, they deviated at the fame tine from good fenfe and propriety. The provincia's of Rome, trained by an uniform artificial education, were engaged in a very unequal competition with thoe bold ancients, who, by expreffing their genuine feelings in their native tongue, had alreadv occupied every place of honour. The name of poet was almoft forgotten; that of orator was ufurped by the fophits. A cloud of critics, of compilers, of commentators, darkened the face of learning, and the decline of genius was fonn followed by the corruption of taftc.
"Longinus obferves and laments the degeneracy of his comtemporaier, which debafed their fentimente, enerw:ted their courage, and denreffed their talents; comparing them to pigmies, whofe ftature has been diminifhed by conflant preffure on their limbs. This diminutive flature of mankind was conllantly finking below the old flard. ard, and the Roman world was indeed peopled by a race of pignies; when the fierce giants of the north broke in and mended the puny breed. They reffored a manly freedom; and, after the revolution of ten centurics, ficedom became the happy parent of tafte and fcience.'"

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Trme. yous ${ }^{\text {sp }}$ io that the guards had time to reficue the emperor, and to feize the confpirators, who were foon af:er put to death. Ibe emperor banifhed his fitter to the inlatd of Caprcæ, where he foon after caufed her to be privately mesdered.

The favourite minifter of Commodus was one Perennis; who in opprefion and cruelty feems to have teen nothing inferior to thofe of the moft tyramical emperors. During the firt part of the reign of Commodus, he ruled with an ablolute fway; but at laft was trat in pieces by the enraged folciery, whom he had ofiended by his too great fererity. He was fuccesded in his place by a freedman named Cleander; for the emperor himfelf was fo much taken up with his pleafures, that he could not beftow even a moment on the affars of ftate. The new minificr abufed his power in a more flacrant manner than even lis predeceffor rad done. By lum all things were openly fet to fale; effices, proxinces, public revenues, juftice, and the lives of men buth imsocent and guilty. The minifter, who ruled the enmperor without controul, infufed fuch terrors into his tir crous mind, that be changed the captains of kis guards almeft continually. One Niger enjoyed the dignity only fix hours; another cnly five days; and feveral others a flill fhorter fpace. Moft of thofe officers left their lives along with their employments; being accufed of treafon by Cleander, who continually folicited, and at laft obtained, that important poft for himfelf.

In the year 187 happened a remarkable revolt. One Naternus, a common foldier, having fled from his co- lours, and being joined by many others guilty of the fame crime, grew in a flort time fo powerful, the banditti flocking to him from all parts, that be overran and plundered great part of Gaul and Spain; formed the ftrongeft cities; and fruck the emperor and peopie of Rome with fuch terror, that troops were raifcd, and armies difpatched againt him. Pefcennius Niger was fent to make head againft him in Gaul, where he became very intimate with Severus, who was then gevernor of Lyons, and who wrote a letter to the emperor, commending thie prudent and gallant behaviour of Niger in purfuing the rebels. Naternus, finding hiefelf reduced to great ftraits, divided his men into feveral finall bands, and marched privately with them by different ways into I:aly; having nothing lefs in view than to murder the emperor during the folemnity which was kept annually in honour of the mother of the gods, and on his death to feize upon the empire for himfelf. They all arrived at Rome undifovered; and feveral of his men had already mixed themfelves with the emperor's guards, when others of his own party betrayed him. He was immediately feized and executed; and his death put an end to the difurbances which fome of his followers had begun to raife in other provinces. In the fame ycar broke out the moft dreadful plague, fays Dio Caffius, that had been known. It lafted two or three years; and raged with the greateft violence at Rome, where it frequently carried off 2000 perfons a-day. The following year, a dreadful fire, which confumed a great part of the city, was kindled by lightning; and at the fame time the people were aflicted with a dreadful famine, occafioned, according to fome saithors, by Cleander, who, having now in view nothing lefs than the fovereignty itfelf, bought up underhasd
all the corn, in order to raife the price of it, and gain the affections of the fuldiery and people by diftributing it among them. Others tell us, however, that Papinius Dionyfins, whofe province it was to fupply the city with provifions, contribu:ed towards the famine, in order to make the people rife againt Cleander. Be this as it will, the populace aferibed all their calamities to this hated minitter; and one day, while the people were celebrating the Ciscenfian games, a troop of children, having at their head a young noman of an extraordinary fature and fierce afpeet, entering the circus, began to uttcr aloud many bitter invectives and drcadful curfes againf Cleander; which being for fome time anfwered by the people with oher invectives and curfes, the whole multitude arofe all of a fudden, and flew to the place where Cleander at that time refided with the emperor. There, renewing their invectives, they demanded the head of the minifiter who had been the occafion of fo mary calamities. Hereupon Cleander ordered the pratorian cavalry to charge the nultitude; which they did accordingly, diving them with great flaughter into the city. Eut the populace difcharging fhowers of flones, bricks, and tiles, from the tops of the houfes and from the windows, and the cily-guards at the fame time taking part with the people, the pratorian horfe were foon obliged to fave themfelves by flight: nor was the flaughter ended till the emperor, apprifed of the tumult, caufed the head of Cleander to be flruck off and thrown out to the enraged populace. The emperor himielf did not long furvive conimodus Cleander ; being cut off by a cor.fpiracy of Marcia his murdeied. favcurite concubine, Lattus captain of the guards, and Eclectus his chamberlain.
No fooner was the death of Commodus known, than the fenate affembled, and declared him a public enemy, loading him with curfes, ordering his fratues to be troken to pieces, and his name to be rafed out of all public inferiptions; and demanded his body, that it might be dragged through wie freets, and thrown into the Tiber. But Helvius Pertinax, whom the confpirators pertinax had previoufly defigned for the empire, and who had raifed to ins already affumed it, prevented fuch an outrage, by let-empire. ting the fenators know that Commodus was already buried. This extraordinary perfonage had paffed though many changes of fortune. He was originally the fon of an enfranchifed flave, called Rlius, who only gave him fo much learning as to qualify him for keeping a little fhop in the city. He then became a fchoolmafter, afterwaru's fudied the law, and after that became a foldier; in which flation his behaviour was fuch as caufed him to be foon made captain of a cohort againft the Parthians. Being thus introduced to arms, he went through the ufual gradation of military preferment in Britain and Moefia, until he became the commander of a legion under Aurelius. In this flation he performed fuch excellent fervices againft the barbarians, that he was made conful, and fuceeffively governor of Dacia, Syria, and Afia Minor. In the reign of Commodus he was banifhed; hut foon after recalled, and fent into Britain to reform the abufes in the army. In this employment his ufual extraordinary fortune attended him: he was oppofed by a fedition among the legions, and left for dead among many others that were flain. However, he got over this danger, feverely punifhed the mutinecrs, and eflablith.

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Rone. ed regularity and difcipline among the troops he was fent to command. lirom thence he was removed into Africa, where the fedition of the foldiers had like to have been as fatal to him as in his former government. Removing from Africa, and fatigued with an active life, he betook himfelf to retirement: but Commodus, willing to keep him thill in view, made him prefect of the city; which employment he filled, when the confpirators fixed upon him as the propereft perion to fucceed to the empire.

His being advanced by Commodus only ferved to increafe his fears of falling as an object of his fufpicions; when therefore the conlpirators repaired to his houfe by nigit, he conlidered their arrival as a command from the emperor for his death. Upon Latus entering his apartment, Pertinas, without any fhow of fear, cried out, That for many days he had expected to end his life in that manner, woadering that the emperor had deferyed it fo long. However, he was not a little furprifed when informed of the real caufe of their vifit; and being tirongly urged to accept of the empire, he at laft complied with their offer.

Being carried to the camp, Pertinax was proclained emperor: foon after the citizens and fenate confented; the joy for the election of a new fovereign being fcarcely equal to that for the death of the former. The provinees quickly followed the example of Rome; fo that he began his reign with univerfal fatisfaction to the whole empire, in the 68th year of his age.

Nothing could exceed the wifâom and juftice of this monarch's reign the fhort time it continued. He punifhed all thofe who had ferved to corrupt the late emperor, and difpofed of his ill-got poffeffions to public ufes. He attempted to relfrain the licentioufnefs of the protorian bands, and put a tiop to the injuries and infolences they committed againft the people. He fold moft of the buffoons and jefters of Commodus as flaves; particularly fuch as had obicene names. He continually frequented the fenate as often as it fat, and never refufed an audience even to the meaneft of the people. His fuccefs in foreign affairs was equal to his internal policy. When the barbarous nations abroad had certain intelligence that he was emperor, they immediately laid down their arms, well knowing the oppofition they were to expect from fo experienced a commander. His great error was avarice ; and that, in fome meafure, ferved to balten his ruin.

The protorian foldiers, whofe manners he had attempted to reform, having been long corrupted by the indulgence and profufion of their former monarchs, began to hate him for the parfimony and difcipline he had introduced among them. They therefore refolved to dethrone him; and for that purpofe declared Maternus, an ancient fenator, emperor, and endeavoured to carry him to the camp to proclaim him. Maternus, however, was too juft to the merits of Pertinax, and too faithful a fubjeet, to concur in their feditious defigns; wherefore efcaping out of their hands, he fled, firtt to the emperor, and then out of the city. They then nominated one Falco, another fenator; whom the fenate would have ordered for execution, had not Pertinax interpofed, who declared that during his reign no fenator fhouid fuffer death.

The pratorian foldiers then refolved unanimoufly not to ufe any fecret confinacies, or private contrivances, Vol. XFIII. Part I.
but boldly to feize upon the emperor and empire at once. They accordingly, in a tumultuous manner, marched through the ifreets of Rome, and entered the palace without oppofition. Such was the terror at their approach, that the greateft part of the emperor's attendants forlook him; while thote who remained earnettiy intreated him to tly to the body of the people and intereft them in his defence. Huwever, he rejected their advice; declaring, that it was unworthy his imperial dignity, and all his paft actions, to lave hinfelf by tlight. Having thus refolved to face the rebels, he had tome hopes that his prefence alone would terrify and confound them. But what could his former virtues, or the dignity of command, avail againtt a tumultuous rabble, nurfed up in vice, and miniiters of former tyranny? One Thrafius, a Iungrian, ftruck bim with his lance on the breaft, crying out, "The folaiers fend you this.". Pertinax finding all was over, covered his head with his robe, and funk down, mangled with a multitude of wounds, which he received from various affafins. Eclectus, and fome more of his attendants, who attermpted to defend him, were alfo flain: his fon and daughte: only efcaped, who happened to be lodged out of the palace. Thus, after a reign of three months, Pertinax tell a facrifice to the licentious fury of the protorian army. From the number of his adventures, he was cailed the tennis-ball of Fortune; and certainly no man ever experienced fuch a variety of fituations with fo blamelefs a character.

The foldiers having committed this outrage, retired The cmpire with great precipitation; and getting out of the city expofed to to the reit of their companions, expeditiounly fortified their camp, expecting to be attacked by the citizens. Two days having paffed without any attempt of this kind, they became more infolent ; and willing to make ufe of the power of which they found themielves poffeffed, made proclamation, that they would fell the empire to whoever would purchafe it at the higleelt price. In confequence of this proclamation, fo odious and unjuft, only two bidders were found; namely, Sulpicianus and Didius Julianus: The former, a confular perfon, prefect of the city, and fon-in-law to the late cm peror Pertinax ; the latter, a confular perfon likewife, a great lawyer, and the wealthielt man in the city. He was fitting with fome friends at dinner when the proclamation was publifhed; and being charmed with the profpect of unbounded power, immediately roie from table and halkened to the camp. Sulpicianus was got there before him; but as he had rathor promifes than treafure to beftow, the offers of Didius, who produced immenfe fums of ready money, prevailed. He was received into the camp by a ladder, and they inftantly fwore to obey him as emperor. From the camp he was attended by his new eleciars into the city; the whole body of lis guards, which confilled of 10,000 men, ranged around him in fuch order as if they had prepared for battle, and not for a peaceful ceremony. The citizens, hovever, refuled to confirm his election; but rather curfed him as he paffed. Upon being conducted to the fenate-houle, he addreffed the few fenators that were prefent in a very laconic fpeech: " Fathers, you want an emperor; and I am the fittelt perion you can choofe." But even this, lhort as it feems, was unneceflary, fince the fenate had it $n$ it in their power to refufe their approbation. His fpee h in their power to sefulc the
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being backed by the army, to whom he had given about a millicn of our money, fuccceded. 'The choice of the foldiers was confirmed by the lenate, and Dicius was acknowledged emperor, now in the 57 :h year of his age.

It fhould feem by this weak monarch's conduet when feated on the throne, that he thcught the gove nient of an empire rather a pleafure th a a toil. Iufiead of attempting to gain the hearts of his fubjects, he gave himielt up to eale and inactivity, utterly regarchtes of the dutics of his ftation. IIe was mild and gentle indeed; neither injuring any nor expecting to be injured. But that avarice, by which be became cpulent, itill followed him in his exallation; fo that the vary fldiers who elected him, foon began to deteft him for thofe qualities, fo very oppofite to a military character. The people alfo, againit whofe confent he was chofen, were no lefs inimical. Whenever he itlued from his palace, they openly poured forth their imprecations againft him; crying out, that he was a thief, and had folen the cmpire. Didius, however, in the tree fpirit of a trader, patiently bore it all; fometimes beckoning them with fmiles to approach him, and teftifying his regard by every kind of futm:fion.

Whiie Didius was thus contemptuoufly treated at home, two valiant generals, in different parts of the empire, difclaimed his authority, and boiely relolved to attempt the throne for themiclves. Thiele were, Pefcennius Niger, governor of Syria; and Septimius Severus, comm nder of the German legions. Niger was be! ,ved by the people for his clemency and valour; and the report of his propofing Pertinas for his model, and refolving to revenge tis dea $h$, gained him univerfal ctleem among the people. Being ti us aprrited of their inciinations, he eafily induced his army in Syria to procl-im lim emperor; and his title was, flortly afiet, acknowledged by all the kings and potentaies in Afra, who fent their ambafladors to him as their lawful prince. The pleafure of being thus treated as a monarch, in feme meafure retarded his endeavours to fccure his title. Entirely fatisfied with the homace of thofe about him, he neglected the opportunitics of fuppreffing his rivals; and gave himfelf up to leaury and fealling at Antioch. The coniduct of Severus, an African Ly birth, was very different. Being proclaimed by his ermy, he began by promifng to revenge the death ot Pertinax, and took upon him his name. He next fecured the fidelity of all the flrong places in his provisice; and then refolved, with the utmoft expedition, to march with his whole force diectly to Rome.

In the miean time, Didius, who difregarded the attempts of Niger, was greatiy alarmed at thofe of Severus. He firt, with many folicitations, procured the fenate to proclaim him a traitor. He then applied himfelf to make the neceflary provifions to oppofe lim, in whilit he found nohing but difappointment. The cohoits that elected him were enervated by vice and luxur": the recple detelled lis caufe: and the cities of Italy $h d$ long been difificd to the arts of war. Sume advif $d$ inin to march forward, and neet Severus as he w. c.ofl:g the Alp; others were for fording the generals upon that expedition. The unfortumare Didius, unequal to the tafk of empire, and ruise confounded with the multiplicity of counfels, could take no other
refolution but that of awaiting his rival's coming at Rome. Accordingly, foon after being informed of his alproach, he obtained the conient of tive fenate to fend his amballadoss, offering to make him a partner or tlie empire. But Severts rejected this effer, confcious of his own firength, ard of the weaknels of the propoler. The folate loon app ared of the fame fentiments; and perceiving the timidity and weahnefs of their prefent malter, began to abandon him, aileging, that he who could not defend the empire was not worthy to govern it. Didius vainly enueavoured to reduce them to their duty, fiuth l.y intreaties, and then by theats; but thele only ferved to haften his defituction. The fenate bei: g called together, as was formerly practifed in the times of the coromoneci. 1 by the con'uls, they tinanimoully decreed, 1 hat Didins fhould be deprived of the empire, and that Severus fhould be proclaimed in his flead. They then commanded Didius to be diain; and fent meliengers for this purpole to the palacc, where they found hirn difarmed, and wceping among a few friends that fill adhercd to his intereft. When the exeon ioners began to prepare for their fatal errand, he expoltulated with them, denanding what crime lie hid con:mitted? He could not be perliaaded to think, that paying his money, and receiving an empire in exchange, delerved io tevere a punillment. The exccutionets, howeter, were neither able nor willing to enter iisto the mer:ts of the caufe; they prefently led him into the fecret latks of the palace, and obliging him 10 ftretch his neek forwards, atter the man:ner of conderonat criminals, fruck off his head, and placed it in in thofe courts where he bad formerly pleaded with great fuccels.

The fenate having thus difpatched Didies, fent am- sercurats bafladors to Severus, yie'ding him obedience, granting ci rid cmhim the enligns ard the ufual titles of empire, and in-perur.
forming h:m of the death of Didius. Scverns, who was now about 47 years of age, received them with all proper rufpect ; ald entertaining them honoural ly, continued his march towards Rome. As he came near the ci:y, his firt exertion of power was, to have all the preetorian foldiers whio tad lately fold the empire ocne forth unarmed to meet him. Thefe though fenfille of their danger, had no other rel arce left hut compliance ; ard accordingly came forward with branches of laurel, as if to welcome his approach. Sever s, however, fcon fhowed how little capable their prefent fubmifion was to atore for their paff offences : after upbraiding them, in a flort feeech, with all their crimes, be comm nded them to be it lantly ftripped of their militaty habits, deprived of the name and honour of foldiers, and baniflied 100 miles from Rome. He then entered the city in a military manner, took praffinn of the folce, and promiled the fena'e to co tuct limfelf with clemency and juftice. However, though he united great vigour with the molt refised policy, yet his Afrie-n cult ing was conifidered as a particular defect in him. He is celebrated for his wit, learning, and pruderce ; but equi !ly bl imed for i: fidelity and cruelty. Th flicrt, he fermed alike diffucted to the derform:nce of the greatefl acts of virtue and the mon bloody Severities. He begnn lis e mman!, by feizing all the children of fu.ch as h.d cmployments or authority in the eatt, $\quad . \quad \mathrm{d} d \mathrm{de}$ ained them as pledges for their fathers loyalty. Hic next ser lied the

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city with corn; and tien with all poflible : edition marched againit Niger, sho was fill confidered and honoured as emperor of the eath.

One of the chief obitacles to his march was, the lear-fca- da.d ing behind him Clodius Albinus, commander of the legions in Beitain, whom he by all means with d to fecure ia hi inter-fls. For this end, he endeavoured to prevail unon him, by giving lim hopes of fucceedin; to the e:npire ; in huating, tl-at he himfel, was ducli *ing, and his children were as $y^{-t}$ but iefonis. To decelve him ftill farther, he wrote in the fame flvle to the fenate, gave him the tille of Cefar, and ordered moncy to be coined with hisimage. The artifices ferving to lull Albinus into falie lecurity, Severus marched againil Niger with all his forces. Aiter fome mdecilive contlicts, the laft grest battle that was fught between thefe e:traoruinary men was upon the plains of Iffus, on the very fpot where Aiexander had formeily conquered Darius. Beffles the two reat armies drawn up on the plain, the neighbouring momtains were covered with infinite numbers of people, who were merely led by curioffer to become fpectators of an engagement that was to determine the c.npire of the world. Severus was confivers: ; and Nige-'s head boing track off by fome foldiers of the cosquering army, was infuitingly carried throuch the camp on the point of a lance.

This vieqry ficcured Severus in the poffeflion of the throme. However, the Parthians, Perfiaw, and fone other neishbouring natio's, took up arms, under a pretence of rindicating Niver's caule. The emperor marched againit them in perfon, had many engrgements with them, and obtained fuch fignal victuries over thiem, as enlarged the empire, and eftablithed feace in the ealt.

Niger being no more, Severus now turned his views againft Albinus, whom he refolved be every means to dafroy. For this purpofe he fent affuffins into Beitain, under a pretence of bringing him letters, but in reaity to difpatch him. Alhinus being apprifed of their defi, ins, prevented their altempt by recurring to npen force and proclain ing hi nfelf emperor. Nor was he without a porerful army to fupport his pretenfions; of which S-verus being feafi'le, bent his whole force to apmofe him. From the eaft he continued his courle acrol's the ftraits of Byzantium, in's the môt weffern part' of Europe, without intermiffion. Albinus being informed of his anproach, went over to meet him with his forecs into Gaul; fo that the campaign on both fides was cerried on with great vigour. Fortune feemed for a whule variable; but at laft a decifive engagement came on, which was one of the moff defne ate ren -1-1 in the lioman hifory. It lafted from morni g till ni ht, wi wout any feeming advan'age on cither fite; at lenoth the tropps of Severus began to fiy, and he himf in hipming to fall from his horfe, the army of Allious crid out, Vi?\}ory. But the engagement iwas foon ronewed with vionur by Læetus, no of Severus's commanders, who came up with a body of referve, d figning to defroy both parties and make hisufelf emperor. Whis attempt, though defigned acraint both, turned out entirely to the advaritage of Sivcrus. He therefore again chared with frets fury and exactnefs, that he foon Filucked the victory from thofowh ut a tlowt time before fe med conquerors: a d purfuin them inta the city of Lyons, took Albinus prifuncr, .d cut off his
head; treaking dead holy with ifu:m o c lis ly a frome me. dinators who wete dlain in hattle he ordered to be quartered, and fuch as were 1 , heu alive wexe immodiately executed.

Having thus fucured limfelf in poffeffion of the empirc, upon t is riurn to liome he loaded his fol ers with reswards and honours; giving them fuch piril s as firengthoned his own prowe, whie tixy if ils yod that of the fate. For the fudiers, who bad ha herto il s. d the liron cit inclination to an abute of poyer. 1 : uw made arbiters of the fate of em eerors; at a $\quad$ thall henceforward behoid them fetting them up, a. d dethroning them, at pleafure.

Being thus $f$ ure of his army, he refolved to give way 10 his matural turn for conquelt, and to op ec. ! In arms againft the Parthians, who were then invatio ${ }^{12} \mathrm{e}$ frontiers of the empie. Having lerefore previoufly given the govertme $t$ of domettic poli- y to one Plautianus, a particular fave: rite of bic, to whefe daus 'e: he married his fon Caracalla, he fet out for the calt, : . . profecuted the war with lis u.val ex edicon and li.ce $\therefore$ He forced fubmifion from the king of Armenia, ciefloyed feveral cities in Arabia Felix, lauded on the Parthian coalts, took and plundered the fimrus city Clefiphon, marclied back through Palelline and E.ypt, and at length re'urned to home in trumph.

During this irterval, Plautianus, who was left to direct the affairs of Rome, began to think of afpiring to the empire limfelf. Upon the emperor's return, he employed a tribúne of the preturian cuhorts, of which he was the command r, to affilin te him, as likewice his fon Caracalla. The tribune feemed cheerfully to undertake this dangerous oflice; but inllead of going the unh with it, informed Severus of his favouritc's treachery. He at firf received it as an improbable flory, and as the artifice of fome one who curied his favourite's fortune. However, he was at laft perfuaded to permit the tribune to corduct Plautianus to the emperor's apartments. With this intent, the tribune went and amufed him with a pretended account of his killing the cmperor and his fon, defiring him, if he thought it fit to fee them dead, to come vith lim to the palace. As Plautienus ardently defired their deaths, he radily gave credit to this relation; and following the tribune, he was conducted ot midnight into the innermoft recafies of the palare. But what muf have been his difappointment, When, in tead of findiug the em-eror lying dead, as he expefted, he beheld the room lighted in with torches, and Seve us, furrounded by his riends, prepared in array to receive him. Being afked isy the emreror, with a Rern countenance, what had brought him there at $t^{\prime}$ at unfeafonsble time? he was at firft utterly confounded; whe-fore, not knowing wlat excufe to make, he ingenuwuly conffied the whele, intreating forgivents for what he had intended. The emperor feemed in the begionis incline 1 to parton; hit Caracalla his frin, who ir in the e rliefl age flowed a difpofition to cruelIv, formet lim avay in the midtt of his fupplications, and with his fword ran him fi? rongh the body:

Severus having efe.pel this danger, fpent a confidera'ble time in vifiting fome cities in ltaiy, in rmitting none of his officers to fell places of trulf or dignits, and iftrit, irg juftirs with the flrictoft impartiality. He took fuch in cxact order in managing his excliequer,

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Rome. that, notwithfanding his great expences, he left more moncy behind him than any of his predecefors. His armies alio were kept upon the molt refpectable footing; fo that he feared no invafion. Being equally attentive to the prefervation of all parts of the empire, he refolred to make his laft expediion into Britain, where the Romans were in danger of being deftroyed or compelled to tly the province. Wherefore, after appointing his two fons Caracalla and Geta joint fucceffors in the empire, and taking them with him, he landed in Britain, to the great terror of fuch as had drawn down his refentment. Upon his progrels into the country, he left his fon Geta in the fouthern part of the province, which had continued in obedience, and marched with his fon Caracalla againtt the Caleconians. In this expedition, his army fuftered prodigious hardflips in purfuing the enemy; they were obliged to hew their way through intricate forelts, to drain extenfive marfhes, and form bridges over rapid rivers; fo that he loft 50,000 men by fatigue and licknefs. However, he fupported all thefe inconveniences with the greatelt bravery; and is faid to have profecuted his fucceffes with fuch vigour, that he compelled the enemy to fue for peace; which they obtained, not without the furrender of a confiderable part of their country. We mult here obferve, however, that the Picts and Caledonians are fo often confounded together by hiftorians, that many miftakes have thence arifen concerning the progrefs and conquefts of the Romans in the north of Britain. But from the boundary formed by the famous wall of Scverus (lee SEIERUS'S Wall), we mult conclude, that no part of Caledonia, properly fo called, had been either on this or any other occafion ceded to him; and there is reafon to believe, that he rather received checks from the people of that territory, than was ever able to make any confiderable impreffion upon them. Be this, however, as it may, after having made peace, and built bis wall, he retired to York; where, partly through grief at the irreclaimable life of Caracalla, he found himfelf daily declining, having already loft the ufe of his feet. To add to the diftrefs of his fituation, he was informed that the foldiers had revolted, and declared his fon emperor. In this exigence, he feemed once more to recal his natural vigour; he got himfelf immediately put into his litter, and commanded the new emperor, with the tribunes and centurions, to be brought before him. Though all were willing to court the favour of the young emperor, fuch was the authority of Severus, that none dared to difobey. They appeared before him confounded and . trembling, and implored pardon upon their knees. Upon which, putting his hand to his head, be cried ont, "Know, that it is the head that governs, and not the feet." However, foon perceiving his diforder to increafe, and knowing that he could not outlive ir, he
of very oppofite difpofitions: Catacalla was fierce and cruel to an extreme degree; Geta was mild and merciful; fo that the city foon found the dangerous effects of being governed by two princes of equal power and coutrary inclinations.

But this oppofition was of no long continuance; for Geta murCaracalla being refolved to govern alone, furicully en-dered by tered Geta's apartment, and, followed by ruffians, flew Caracalla. him in his mother's arms. Having committed this detellable murder, he iflued with great hafte from the palace, crying out, 'That his brother would have flain him; and that he was obliged, in felf-defence, to retaliate the intended injury. He then took refuge among the pratorian cohorts, and in a pathetic tone began to implore their affiftance, ftill making the fame excufe for his conduct. To this he added a much more prevailing argument, promifing to Seftow upon them the largefies ufually given upon the election of new emperors, and diftributing among them almolt all the treafures which had been amafied by his father. By fuch perfuafives the foldiers did not befitate to proclaim him fole emperor, and to figmatize the memory of his brother Geta as a traitor and an enemy to the commonwealth. The fenators were foon after induced, either through favour or fear, to approve what had been done by the army: Caracalla wept for the death of his brother whom he had flain; and, to carry bis hypocrify to the utmolt extreme, ordered him to be adored as a god.

Being now emperor, he went on to mark his courfe Who proves with blood. Whatever was done by Domitian or Nero a moft fell fhort of this monfter's barbarities. Lattus, who firft bloody tyadvifed him to murder his brother, was the firft who fell a facrifice to his jealoufy. His own wife Plautina followed. Papinian, the renowned civilian, was beheaded for refufing to write in rindication of his cruelty; anfiwering the emperor's requelt, by obferving, That it was much eafier to commit a parricide than to defend it. He commanded all governors to be flain that his brother had appointed; and deftroyed not lefs than 2002 perfons who had adhered to his party. Whole nights were fpent in the execution of his bloody decrees; and the dead bodies of people of all ranks were carried out of the city in carts, where they were burnt in heaps, without any of the ceremonies of a funeral. Upon a certain occafion, he ordered his foldiers to fet upon a crowded audience in the theatre, only for difcountenancing a charioteer whom he bappened to favour. Perceiving bimfelf hated by the people, he publicly faid, that he could infure his own fafety though not their love; fo that he neither valued their reproaches nor feared their hatred.

This fafcty which be fo much built upen was placed in the protection of his foldiers. He had exhaufied His extra. ${ }^{3 \$ \mathrm{r}}$ the treafury, drained the provinces, and committed a wegant fol thoufand acts of rapacity, merely to keep them ftedfaft $y$, cruelly in his interefts; and being difpofed to truft himfelf and treawith them particularly, he refolved to lead them upon chery. a vifit through all the provinces of the empise. He firft went into Cermany ; where, to oblige the natives, te drefled himfelf in the habit of their country. From thence he travelled into Macedonia, where be pretended to be a great admirer of Alexander the Great; and among other extravagancies caufed a flatue of that mpoarch to be made with tro faces; one of which re-
fimbled

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Rome. fembled Alexander and the other himfilf. He was fo corrupled by flattery, that he called himfelf Alexander; walked as he was told that monarch had walkee ; and, like him, bent his head to one ftoulder. Shortly after, arriving at Leffer Afia and the ruins of Troy, as he was viewing the tomb of Achilles, he took it into his head to refemble that hero; and one of his fieedmen happening to die at that time, he ufed the fame ceremonies that were performed at the tomb of Patroclus. Paffing thence into Egypt, he mallacred in the molt terrible manner the inhabitants of Alexandria, on account of the latires they compofed on him, as is related under the article Alexandria.

Going from thence into Syria, he invited Artabanus king of Parthia to a conference; defiring his daughter in marriage, and promiling him the molt honourable protection. In confequence of this, that king met him on a fpacious plain, unarmed, and only attended with a valt concourfe of his nobles. This was what Caracalla defired. Regardlefs of his promife, or the Iaw of nations, he inftantly furrounded him with armed troops, let in wild beafts among his attendants, and made a moft terrible flaughter among them; Artabanus himfelf efcaping with the uimoft difficuliy. For this vile treachery he obtained from the fenate the fur-
3 Sz name of Parthicus.
Upon his return towards Rome, it would feem as if
death, by which alone he could expect any fafety. At length he determined to apply to one Mattialis, a man of great Itrength, and a centurion of the guards, who hated the empero: from various motives; particulariy for the death of a brother, whom Caracalla had orcered to be flain. Him therefore Macrinus exhorted to revenge his brother's dcath, by killing the tyrant, which he might eafily effect, as being always fo near his perfon. Martialis readily undertuok the dangerous tafi: ; being willing to meet death himfelf, fo he might ootain his defire of feeing the tyrant expire before him. Accordingly, as the emperor was riding out one day He ${ }^{383}$ raurnear a little city called Carra, he happened to with-dercd. draw himfelf privately, upon a natural occafion, with only one page to hold his horfe. This was the opportunity Martialis had fo long and ardently defired; wherefore running to him as if he had been called, he ftabbed the emperor in the back, fo that he died immediately. Martialis unconcernedly returned to his troop; but retiring by infenfible degrees, he endeavoured to fecure himfelf by flight. But his companions foon miffing him, and the page giving information of what had been done, he was purfued by the German horfe and cut in pieces.

During the reign of this execrable tyrant, which continued fix years, the empire was every day declining; the foldiers were entirely mafters of every clection; and as there were various armies in different parts, fo there were as many interefts all oppofite to each other. Caracalla, by fatisfying their moft unreafonable appetites, deftroyed all difcipline among them, and all fubordination in the flate.

The foldiers, now without an emperor, after a fuf- Macrinus penfe of two days, fixed upon Macrinus, who took all lucceeds. poffible methods to conceal his being privy to Caracalla's murder. The fenate confirmed their choice fhortly after; and likewife that of his fon Diadumenus, whom he took as a partner in the empire. Macrinus was 53 years old when he entered upon the government of the empire. He was of obfcure parentage; fome fay by birth a Moor, who by the mere rotation of office, being firit made prefect of the pretorian bands, was now, by treafon and accident, called to fill the throne. We are told but little of this emperor, except his engaging in a bloody though undecided battle with Artahanus king of Parthia, who came to take vengeance for the injury he had futtained in the late reign: huwever, this monarch finding his real enemy deaf, was content to make peace, and returned into Parthia. Something is alfo faid of the feverity of this emperor's difipline; for to fuch a pitch of licentioufnefs was the Roman army now arrived, that the moit fevere punithments were unable to reftrain the foldiers; and yet the moft gentle intlictions were looked upon as leverity. It was this rigorous difcipline, together with the artifices of Mrefa, grandmother to Ifeliogabalus the natural fon of Caracalla, that caufed the emperor's ruin. Helio. $H^{3^{8} 4}$ gabalus was prieft of a temple dedicated to the Sun, in is lus reEmela, a city of Picenicia; and though but 1 \& years oolsagniof old was greatly loved by the army for the beauty of him. his perfon, and the meinory of his father, whom they fill confidered as their greatelt benefactor. This w's foon perceived by the grandmother; who being very rich in gold and jewels, gave liberal prefents amung then, while they frequently repaired to the semple,

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Rome both from the garrifon in the city and the camp of Macinus. This indercourfe growing every day more frequent, the foldiers, being difgulted with the fevcritics of their prefent emperor, began to thisk of placing Heliogabalus in his ftead. Accordingly, ferding for him to their camp, he was insmediately proclaimed; and fuch were the hopes of his virtues, that all men began to affect his interelts.

Macrinus, who at this time was purfuing his pleafures at Antioch, gave but little attention to the lirft report; only fending his lieutenant Juilian, with fome legions, to quell the infurrection. However, thefe, like the reft, foon declared for Heliogabalus, and flew their general. It was then that Niacrinus found he had treated the rebellion too flightly; he therefore refolved, with his fon, to march directly againft the feditious legions, and force them to their duty. Both parties met on the confines of Syria : the battle was for fome time furious and obltinate; but at laft Macrinus was over-
thrown, and obliged to feek fufety by flight. His principal aim was to get to Fiome, where he knew his prefence was defired; wherefore he travelled through the provinces of Afia Minor with the utmoft expedition and privacy, but unfortunately fell fick at the city of Chalcedon. There thofe who were fent in purfuit, orertook and put him to death, together with his fon Diadumenus, after a fhort reign of one year and two months.

The fenate and citizens of Rome being obliged to fubmit to the appointment of the army as ufual, Heliogabalus afcended the throne at the age of $1 \frac{4}{4}$. One at to early an age, invefted with unlimited power, and furrounded with flatterers, could be expected to act only as they thought proper to direct. This young emperor was entirely led by them; and being fenfible that it was in his power to indulge all his appetites, he fuded only their gratification. As he is deforibed by hitionians, he appears a monfter of fenfuality. His 2. ri lie therefore is but a tillue of cffeminacy, luit, and extravagance. He married, in the fmall face of four years, fix wives, and divorced them all. He built a temple to the fin, and willing that lis god fhould have a wife as well as himfelf, he married him to Pallas, Fr.d floorily :fter to the moon. His palace was a place of rensezrous for all the proflitutes of Rome, whom he frequemly met naked, calling them his fellow foldiers, and c repanimes in the field. He was fo fond of the fex, that he carried his muther with him to the fenatehoufe, and demanded that fhe fhould always be prefent when motlers of importance were debated. He even went fo far as to build a fenate-houfe for women, with fitable orderc, labits, and diftinctions, of with his mother was made prefident. They met feveral times; all their dehates turning upon the furfions of the day, and the dif rent formalitis to be ufed in giving and sec iving wifts. To thefe follics, he added great cruelty and bou d'eik prodigality; fo that he was hered to fay, tha: fich dinhes as were cheaply obtained were fearcely worth eatins. His fupuers th refore genetal'y coft 6002 crowne, and uften 65,000 . He was always dreffed in cloth of yold and purle, emriched with precimis ftonec, and vet never wore the fame hadit teice IH's pal of, lis chambers, and his heds, were all furnithed of. the richel hafs, covered with and and jewels. Whencver he took horfe, all thie way between his apertment
and the place of mounting was covered with gold and filver oult frewn at his app:oach.

Thefe excefies were foon perteived by his grandmother Mixafa, whole intrigues had firft miled him to the throne ; fo that the thought to lenien his power by dividing it. For this purpofe, under a pretence of frecing him from the cares of puelic bufincis, the perfuaded him to adopt his coutin-geman, Alexander, as his Adophe ${ }^{357}$ fucceflor; and inkewife to make bim his partner in the xuter, confuiltip. Helogabalus, having thus raifed his coufin, and takes had fearcely given him kis power, when he wifhed again colieague. to take it away; but the virtues of this young prince had fo greatly endeared the people and the army to kim, that the attempt had like to have been fatal to the tyrant himielf. The pratorian foldiers mutinying, attempted to kill him as he was walking in his gardens; but he efcaped, by hiding himfelf from their fury. However, upon returning to their camp, they continued the fedition; requiring that the emperor fhould remove fuch perfons from about him as oppreffed the futjeet, and contributed to contaminate him. They requred alfo the being permitted to guard the young prince themfelves, and that none of the emperor's favourites or familiars fhould ever be pernitted to converle with him. Heliogabalus was reluclantly obliged to comply; and confcious of the danger he was in, made preparations for death, when it flould arrive, in a manner truly whinuical and peculiar. He built a lofty tower with fleps of gold and pearl, from whence to throw himfelf headlong in cafe of neceffity. He alfo prepared cords of purple filk and gold to ftrangle himfelf with; he provided golden fwords and daggers to flab himielf with; and poifon to be keyt in boxes of emerald, in order to obtain what death he chofe befl. Thus fearing, all things, but particularly fufpicious of the defigns of the fenate, he banifhed them all out of the city: he rext attempted to poifon Alexander, and fpread a report of his death; but perceiving the foldiers begin to mutiny, he immediztely took him in his chariot to the camp, where he experienced a frefh mortification, by finding all the acclamations of the army directed only to his fucceffor. This not a little railed lis indignation, and exciled his dufire of reverge. He returned towards the city, threatening the meit fevere punifloments againft thofe who had difileafed him, and meditating freft cruel lies. However, the foldiers were Is murdired unwilling to give him time to put his defigns in execu- by the foltion : they followed him direenly to his palace, purfued him from apartment to apartment, and at laft found him concealed in a privy; a fituation very diffierent from that in which he expecied to die. Having dragged him from thence through the flrects, with the moit bitter invectives. and having difnatched him, they nttempted once more to faueeze his pampered body into a privy; but not esfily effeding th is, th ey threw it into the Tiher, with heavy wcights, that none might afterwards find or give it buriel. This was the milerable and ignominious death of Heliogab.lhs, in the $18 . \mathrm{h}$ year of his age, after a deleflable reign of four years. His mother alfo was flain at the fame time liy the foldiers: as were alfo many of the opprobrious afociates of his criminal pleafures.

Alevander heirg, ritl:out oppofition, declared em- vi tues of peror, the fernle, in their ufual method of adulation, Atexan'er. weye for conferring new titles upon him ; bat he modelly

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Rome. dqaits declined them all, alleging, that titles wore only horourable when.given to vi-ue, not to flatim. 'lyis pliniel was a hu fy omen of his fure virtie; a a d fori prilices ia hitiory have been more commen d by comemforaries, or inueed more duticred commendation. To the moit rigid jartice he added the greateft humsuity. He loved the geod, and wis a fevere reprover of the lewd aad inamous. His accomplithme:'ts were equal to his virtues. II was an excellent niathematician, geometrician, and mufician; he was equally peilled in painting and fculpture; and in poetry fur of his time could equal him. In thort, fuch were his talents, and fuch the fosidity of is judgement, that though but 16 years of agge, he was confidered as a mile old man.

The firf part of his reien was fpent in a reformation of the aivili if his prodeceff it Ile reto:ed the dina:ors to their rank; nothing being unde aken willo the thult fage advifers, and moli matu'e deloweratio Amsig the namber of his atwifers was his mother Mamm. ; a woman eminent fox̃ her virtues and accomplithte $n$ 's, and who mate wie of her power as well to fecure bee ion the affechom of his fubjects, as to procure them the ma a juth .dunibittration. He was a rigid puailher of fuch $m$ gitiates as took bithes, laying, That it was not enough to deprive fuch of their places; for their trufts being great, their lives, in molt cafes, of ath to pay or a breach of them. On the contrary, be thought he could never lifficiently reward fuch as had been remarkable for their juftice and integrity, keeping a regifer of their names, and fometimes afking fuch of them as appeared modelt and unwilling to approach him, why they were fo backward in demanding their reward, and why they fuffered him to be in their debt? His clemency extended even to the Chriftians, who had been punithed in the former reigns with unrelenting barbarity. Upoa a conteft between thein and a company of cooks and vininers, about a piece of public ground, which the one claimed as a place for public wo.hip, and the other for exerciling their refpestive trades, he decided the point by his refeript, in thefe words: "It is better that God be wormipped there in any manner, than that the place thould be put to ufes of drunkennefs and debauchery."
fucceffful in Germany, ard Junius Palnatu. returned with conquast from Armenia. However, the number of thefe vict rics unly hatered the d-clive of the empare, which was walled by the exation of its own ilre gth, and was now becoming litlie more than a fiplendid win.

A sout the $13^{\text {th }}$ year of his reign, the Upfer Germens, and othor nortico 14 ions, began to pour down immenfe fwarms of people upon the more futhe n parts of the empire. They paffed the Rhine and the 1)anube with fuch fury, that all Italy was thrown into the moll extrenceconfternation. The emperor, ever reals to expole himfelf for the fafety of his peopl, matle what levies he could, and went in perfon to them the torrent; which he fpeedily effected. It was in thes cour : of his fuccells zolintt the enemy, that he was cut off by a mutiny among his foldiers. I he legions encamped about Moguntia, laving been abominably cortup ed furing the reign of Heliogabalus, and trais:el uf in all kinds of $r 2$ ise and difobedien e, reqquired themoft thic command. Alex nder colld nether endure their tumultuary obedience, vor they his re, ular dicilline. His own faults, and thole of his mother Aamma, were of jected againtt him. Liney openly exclaimed, That they were governed by an avaricous woman, and a mean-ipirited boy; and refolved. upon electing an emperor capable of ruling alone. In this general revolt, Maximinus, an old and experienced commander, held fiequent conferences with the foldiers, and enil med the fedition. At length, being determined to difpatch their prefent emperor, they lent an executioner into his tent; who immediately ftruck off his head, and, fhortly after, that of his mother. He died in the 29th year of his age, after a prolperous reign of thirteen years and nine days.

The tumults occafioned by the death of Alexander S cicedch teing appeafed, Maximinus, who had been the chicf"y Mavpromoter of the fedition, was chofen emperor. This $n$ us, a extraordinary man, whofe character deferves particular an tic flaattention, was born of very obfcure parentage, being ture and the fon of a poor herdfinan of Thrace. In the begiri-exeraodinine he followed his fither's profetion, and only exer- y ci'ed his perfonal courage againft the robbers who in- 1 reneth. felled the part of the country in which he lived. Soon after, his am! 'tion increaing, he left bis foor emp' yment, and cnlitted in the Roman army ; wh. re he oon became remarkable for his great ftrength, difeipline, and courage. This gigantic man w:s no le than eight feet and a half high; he had a body and tirength correfponding to lis fize, being not lefs remarkable or the magnitude than the fymmetry of his pef $n$. His wife's bracelet ufually ferved him for a thumb-rin.g, and his ftrength was fo great, that he was able to draw a c.rriaze which two oxen could not move. He could ffrike out a horfe's teeth with a blow of his fift, and break its thigh with a kick. His diet w.s as extraordinary as the refl of his eidowments; he oencrally ate 40 pounds weight of flefl every day, and drawk fix g. 1 . 1 ins of wine, wi hout commiteing ary det weh in either. With a frame fo a hletic, he w.s polleffed of a mird undumted in dineer, and ne li er fearing for rem ording: anv in-n. The fiff time he was made known to the emperor Severus, it's it on hisceletratis games on the birthed $y$ of I is f . Geta. Max mulas wes then a rude countryman, ard requefted the emperor to te permitted

## R © M $\left[\begin{array}{lll}2 & j^{2}\end{array}\right] \quad$ R O M

Rame. to contend for the prizes which were dirtributed to the belt runners, wrefllers, and boxers, of the army. Severus, unwilling to infringe the military difcipline, would not permit him at firlt to combat, except with flaves, againf whom his ftrength appeared attonilhing. He overcame 16 in running, one after the other: he then kept up with the emperor on horfeback; and having fatigucd him in the courfe, he was oppofed to feven of the moft active foldiers, and overcame them with the greateft eafe. From that time he was particularly noticed, and taken into the emperor's body-guards, in which his affiduity and prompt obedience were particularly remarkable. In the reign of Caracalla, he was made a centurion, and diftinguifhed himfelf in this ftation by his ftrict attention to the morals and difcipline of thofe he commanded. When made a tribune, he fill retained the hard fimplicity of his life; ate as the meaneft centinel; fpent whole days in exercifing his troops; and would now and then himfelf wreftle with eight or ten of the ftrongeft men in the army, whom he threw with fcarce any effort. Being thus become one of the moft remarkable men in the empire, both for courage, difcipline, and perfonal activity, he gave, fhortly after, a very high inflance of his unflaken fidelity: for when Macrinus was made emperor, he refufed to ferve nuder a prince that had betrayed his fovereign; and retied to Thrace, his native country, where he tollowed commerce, and purchafed fome lands, content with privacy rather than a guilty dependence: Upon the acceffion of Heliogabalus to the throne, this bold veteran once more returned to the army ; but was, in the very beginning, difgufted at the bafe effeminacy of the emperor; who, hearing amazing inftances of his ftrength, afked him, if he were equally capable in combats of another nature? This lewd demand was fo little fuitable to the temper of Maximinus, that he inflantly left the court. Upon the death of Heliogabalus, he again returned to Rome, and was received with great kindnefs by Alexander, who particularly recommended him to the fenate, and made him commander of the fourth legion, which confifted of new-raifed foldiers. Maximinus gladly accepted of this charge, and performed his duty with great exactnefs and fuccefs, fetting an example of virtue and difcipline to all the commanders of the army. Nor was his valour lefs apparent againft the Germans, whither he was fent with his legion; fo that he was unanimoufly confidered as the boldeft, braveft, moft valiant, and molt virtuous foldier in the whole empire. He foon, however, forfeited all thefe juftly merited titles, when he was raifd to the throne; and, from being the moft loved commander in the army, he became the moft cruel tyrant upon earth. Yet in fact, his former virtues were all of the fevere and rigid kiad, which, without any education, might very eafily degenerate into tyranny; fo that he might have miftaken his fucceeding cruelty for difcipline, and his feverity for juffice. However this be, Maximinus is confidered as one of the greateft monflers of cruelty that ever difgraced power; and, fearful of nothing himfelf, he feemed to fport with the terrors of all mankind.
393 Becomes a cruel tyrant.

They utterly refuling to confirm the election of the aimy, he was the fint emperor who reigned without their concurrence or approbation. However, he feersed regardlefs of their oppofition, proceeding to fecure his election by putting all fuch to death as had been raifed by his predeceflors. The Chriftians alfo, having found favour in the former reign, felt the weight of his refentment ; and were perfecuted in feveral parts of the empire, particularly in thofe where he himfelf refided. His cruelty likewife extended to the rich, whofe lives and eftates became a frequent facrifice to avarice and fufpicion. But what appears fill a more exiraordinary inftance of his cruelty, being afhamed of the meannefs of his extraction, he commanded all fuch as were beft acquainted with him and his parentage to be flain, although there were forne among the number that had received him in his low condition.

However, his cruelties did not retard his military His mecefo operations, which were carried on with a fpirit be-in war. coming a better monarch. He overthrew the Germans in feveral battles, wafted all their country with fire and fword for 400 miles together, and fet a refolution of fubduing all the northern nations as far as the ocean. In thefe expeditions, in order to attach the foldiers more firmly to him, he increafed their pay; and in every duty of the camp, he himfelf took as much pains as the meaneft centinel in his army, fhowing incredible conrage and affiduity. In every engagement, where the conflict was hotteft, Maximinus was always feen fighting there in perfon, and deftroying all before him: for, being bred a barbarian, he confidered it as his duty to combat as a common foldier, while he commanded as a general.

In the mean time, his cruelties had fo alienated the Confpiracies minds of his fubjects, that feveral confpiracies wereformed afecretly aimed againit himı. Magnus, a conlular perfon, gaint him. and fome others, had plotted to break down a wooden bridge, as foon as the emperor had paffed it, and thus to abandon him to the enemy. But this being difcovered, gave Maximinus an opportunity of indulging his natural feverity, upon this pretext alone caufing above 4000 to be flain. Shortly after, fome of Alexander's old foldiers withdrawing themfelves from the camp, proclaimed one Quarcianus as emperor, who had been lately difgufted at Maximinus for being difmiffed from employment. The foldiers, in fact, conitrained him to accept of the dangerous fuperiority to which he was expofed: and fhortly after, in the fpirit of the times, the perfon who had been the promoter of his advancement, murdered him in his bed, and cartied his head to Maximinus; who received him kindly at firft, but foon put him to a crnel death, for his complicated guilt of treafon and treachery.

Thele rartial infurrections were foon after followed by a fpirit of general difcontent throughout ail the empire. The provinces of Africa were the firft that fhowed their deteffation of the tyrant, whofe extortions and cruelties among them were become infupportable. They firt flew his procurator ; and afterwards confidering how dangerons a crime they had committed, they refolved to throw off all expectations of pardon, and create a new emperor. Gordian was then proconful Gordian of Africa, a perfon of great fame for his virtues, and wolamed hishly reverenced for a blamelefs life of near 80. . ${ }^{\text {mperor. }}$ $H \mathrm{~m}$, therefore, they determined to eleet; and ac-

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Rome. cordingly the foldiers and natives affembling together, tumultuoufly entered his houfe, refolved to put their defign in execution. Gordian, who at firft fuppofed they were come to kill him, being made fenfible of their intentions, utterly refufed their offer, alleging his extreme age, and Maximinus's porver. But all his oppofition was vain : they confrained him to accept of the proffered dignity; and be, with his fon Gordian, who was 46 years of age, were declared emperors. Being thus raifed contrary to his inclination, the old man immediately wrote to the fenate, declaring that Le had unwillingly accepted of the empire, and would only keep kis authority till he had freed it from the tyranny of its prefent opprefior. The fenate very jojfuliy confirmed his election, adjudging Maximints as an enemy and traitor to the flate. The citizens allo nowed an equal zeal in the caufe: they flew upon fuch as were the reputed friends of Maximinus, and tore them in pieces ; even fome who were innocent falling a facrifice to the blind rage of the multitude. So great an alteration being made in the city adxaint the interetts of Maximinus, the fenate were refolved to drive the oppofition to the extreme; and accordingly made all neceffary preparations for their fecurity, ordering Maximinus's governors to be difplaced, and commanding all the provinces to acknowledge Gordian for emperor. This order was differently received in different paris, as people were affected to one or the other party: in fome provinces the governors were flain; in others, the meffengers of the fenate; fo that all parts of the empire felt the confequences of the civil war.

In the mean time, when Maximinus was informed Maximinus on bearing the new.. vere charges againin him, his rage appeared ungovernable. He roared like a favage beaf, and violent-
ly ftrucler his head againit the wall, fhowing every infiance of ungovernable diftraction. At langth his fury being fomewhat fubfided, he called his whole army together; and, in a fet fpeech, exhorted them to revenge his caufe, giving them the ftrongeft affurances that they fhould poffefs the eftates of all fuch as had offended. The foldiers unanimouny promifed to be faithful; they received his harangue with their ufual acclanations; and, thus encouraged, he led them towards Rome, breathing nothing but flaughter and revenge. However, he found many obftacles to h:s impetuofity; and, though he defired nothing fo much as difpatch, his marches were incommeodious and flow. The tumultuous and difobedient armies of the empire were at prefent very different from the legions that were led on by Silla or Cafar; they vere loaded with baggage, and followed by flaves and women, rather refembling an eaftern caravan, than a military battalion. To thefe inconveniences alfo was added the batred of the cities through which he pafied, the inbabitarts all abandoning their houfcs upon his approach, and fecuring their provifions in proper hidirgplaces. However, in this complication of incorveniences and misfortunes, his affairs began to vear a favourable appearance in Africa: for Capelianus, the
ing his vietory, entered Carthage; where he gave a loofe to pillage and flaughter, under a pretence of revenging the caufe of Maximinus. The news of thefe fucceffes was foon brought to the emperor, who now increafed his diligence, and flattered himfelf with a fpeedy opportunity of revenge. He led on his large army by hafty journeys into ltaly, tirreatening detruction to all his oppofers, and ardently withing for freft opportunitios of flaughter.

Nothing could exceed the confernation of the fenate upon the news of this defeat. They now farv themfelves not only deprived of the affiftance of Gordian and his fon, on whom they greatly relied ; but alfo oppofed by two formidable tyraats, cach commanding a victorious army, direaly marching towards Rome, and meditating nothing but rengeance. In this afflicting exigence, they, with great folemnity, met at the temple of Jupiter, and after the mof mature deliberations, chofe Pupienus and Balbinus emperors conjointly. Thefe were men who had acquired the efteem of the puppernus public both in war and peace, having commanded aro ${ }^{\text {and }}$ Babibimies, and governed provinces, vith great reputation; rus proand being now appointed to oppofe Maximinus, they emperors made what levies they could, both in flome and the country. With thefe, Pupicnus marched to fop the progreis of the invaders, leaving the city to a freft and unlooked for calamity. This was occafioned by two of Maximinus's foldiers, who, entering the fenateboufe, were fain by two fenators. This quickiy gave cifence to the body of the pretorian foldiers, who inflantly refolved to take revenge, but wace oppofed by the citizens; fo that nothing was feen iboughout Rome, but tumult, flaughter, and cruelty. In this univeifal confufion, tiee calanity was increafed by the foldiers fetting the city on fire, while the wretched inhabitants were combating each other in the midft of the flames.

Neverthelefs, Maximinus himfelf, in whofe faveur theie feditions were prometed, did not feem to be more fortunate. Upon being informed of the new election of emperors, his fury was again renewed, and he paffed the Alps, expeĉting, upon entering Italy, to refrefl his fatigued and famifhed army in that fertile part of the country. But in this he was entirely difappointed; the fenate had taken fuch care to remove all hinds of fuftenance to fortified places, that he fill found himfelf reduced to his former neceffities, while his army began to murmur for wast. To this another difappointment was added fortly after: for approaching the city of Aquileia, which he expected to enter without any dificulty, he was aftonihed to find it prepared for the moft obftinate refirtance, and refolved to hold out a regular fiege. This city was well fortified and populous, and the inhabitants giently averfe to Masiminus's government; but what added frifl more to its frength, it was commanded by two excelient gencrale, Crifpinus and Menophilis, who had fo well furnithed it with men and ammunition, that Ma:iminus found no fmall reffitance, even in invefting the place. Iis frif attempt was, to take the city by form; but the befieged threw down fuch quantities of falding pitch and fulphur upon his foldiers, that they were unable to continue the affantio. He then determined upon a tlickate ; but the inhabitanis were fo refolute, tha: even the oid men and cliildren were feen combatiog uyon the ualk, white the wumen cut off their herr to furnilh the foldiers with bow Gg
ftrings governor of Numidia, railed a body of troops in his favour, and marched againft Gordian, towards Carthage; where he fought the $y$ unger Gordian, flew him, and deftroyed his army. The father, hearing of the death of his fon, together with the lofs of the battle, ftraigled bimfelf in his own girdle. Capelianus purfu-

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finins. II-ximinus's rage at this unexperted oppofition was now ungo: ernable: having no enemy to wreck his Fefentmont t.pun, he turned it againft his own commanders. He put many of his generals to death, as if the city had beid out through their negled or incapacity, while famine made great depredations upon the reft of his army. Nuthing now api $\cdot$ red on either fide to terminate the conteft, except the total defiruction of either. Bat a mutiny in Maximi.us's oun army a whilé refcued the declining empire from deftruction, and faved the lives of thoulands. The foldiers being long haratied by famine and fatigue, and hearing of revolis on every fide, refolved to terminate their calamities by the tyrant's death. His great frength, and his being always armed, were, at firft, the principal motives to deter any from aff faflinating him; but at length having made his guards accomplices in their defign, they fet upon him, while he flept at noon in his tent, and new both him and his fon, whom he had made his partner in the empire, without any oppofition, after an ufurpation of about three years, and in the 65 th year of his age.

The tyrant being dead, and his body thrown to the dogs and birds of prey, Pupienus and Balbinus continued for fome time emperors without oppofition. But the pretorian foldiers, who had long been notoriots for mutiny and treafon, foon refolved on further change. Nor did the diffenfions between the new made emperors themfelves a little contribute to their downfall: for though both were remarkable for wiffom and age, yet they could not reftrain the mutual jealoufy of each other's power. Pupienus claimed the fuperiority from his great experience; while Balbinus was equally afpiring upon account of his family and fortune.

In this ill-judged contelt, the prætorian foldiers, who were enemies to both, fet upon them in their paIace, at a time thcir guards were amufed with feeing the Capitoline games, Pupienus perceiving their tumultuous approach, fent with the utmoft fpeed for alfiftance from his colleague; but he, out of a culpable fufpicion that fomething was defigned only againft him-

432 Rnd likewife Pupie nos and Palbinus. felf, refufed to fend fuch of the German guards as were next his perfon. Thus the feditious foldiers found an eafy accefs to both the emperors apartments; and drag. ging them from the palace towards the camp, flew them both, leaving their dead bodies in the ffreets, as a dicadful inflance of their fedition.

In the midit of this fedition, as the mutineers were proceeding along, they by accident met Gordian, the grandfon of him who was flain in Africa, and declared him emperor on the $f_{\text {iote }}$. The fenate and people had been long reduced to the neceffity of fuffering their emperors to be nominated by the army; fo that all they could do in the prefent inflance was to confirm their cheice. This prince was but $16 y$ ears old when he began his reign, but his virtues feemed to compenfate for the want of experience. His principal aims were, to unite the oppofing members of the government, and to reconcile the foldiers and citizens to each other. His learning is faid to have been equal 10 his virtues; and we are affured that he had 62,000 books in his library. His refpect for Mifihzeus, his governor and infructor, was fuch, that he married bis daughter, and profited by his counfels in all the critical circumftances of his reign.

The firf four years of this emperor's reign were
attended with the utmoft profperity; but in the fifth he was alarmed with accounts from the eaft, that sapor, king of Perfia, had furioufly invaded the confines of the Koman empire, and having taken Antioch, had pillaged Syria and all the adjacent provinces. Befides the Perfians, the Goths alfo invaded the empire on their fide, ponring down like an inundation from the north, and atterapting to fix their refidence in the kingdom of 'Ihrace. To oppofe both thefe invafions, Gordian prepared an army; and having gained fome victories over the Goths, whom he obliged to retire, he turned his arms againft the Perfians, whom he defeated upon feveral occafions, and forced to return home with difgrace. In gaining thefe advantages, Mifithæus, whom he had made prætorian profect, had the principal fhare; but he dying foon after (as it is fuppofed being poifoned by Philip an Arabian, who was ap. pointed his fucceffor), the fortunes of Gordian feemed to die with him. The army began to be no longer fupplied with provifions as ufual ; murmurs were beard to prevail, and thefe were artfully fomented by Philip. Things thus proceeding from bad to worfe, Philip was at firft made his equal in the command of the empire; fhortly after, invefted with the fole power; is 405 and, at length, finding himfelf capable of perpetratinged by thihis long meditated cruelty, Gordian was, by his order, hp, who flain, in the 22d year of his age, after a fucceffful reign fucceeds of near fix years,
Philip having thus murdered his benefactor, was fo fortunate as to be immediately acknowledged emperor by the army. The fenate allo, though they feemed at firit to oppofe his power, confirmed his clection, and gave him, as ufual, the title of Auguftus. Philip was about 40 years old when be came to the throne; being the fon of an oblcure Arabian, who had been captain of a band of robbers. Upon his exaltation, he affociated his fom, a boy of fix years of age, as his partner in the empire; and, in order to fecure his power at home, made peace with the Perfians, and marched his army towards Rome. On his way, having conceived a defire to vifit his native country of Arabia, he built there a city called Philippopolis; and from thence returning to Rome, he was received as emperor, and treated with all the marks of fubmiffion, though not of joy. To put the people in good humour, he caufed The ${ }^{406}$ the fecular games to be celebrated, with a magnificencefanith year fuperior to any of his predeceffors, it being juft $1000^{\text {of Rome. }}$ years after the building of the city. Upon occafion of thefe games, we are told that both Philip and his fon were converted to Chrilianity. However this be, a murderer and an ungrateful ufurper does no great honour to whatever opinion he may happen to embrace. We have little account of the latter part of his reign in the wretched and mutilated hiftories of the times; we only learn, that the Goths having invaded the empire, Marinus, Philip's lieutenant, who was fent againft them, revolted, and caufed himfelf to be declared emperor. This revolt, horvever, was but of thort duration; for the army which had raifed him repented of their raflnefs, depofed him with equal levity, and put him to death. Decius was the perfon whom Philip appointed to command in the room of the revolting general. The chief merit of Decius with the emperor was, that when Marinus had rebelled, he averred in the Enate, That the tratior's prefumption would be very fhortly

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fhortly his rum ; which, when it happened accordingly, Philip appointed him to fucceed in the command of the rebeliious army. Decius, who was a man of great fubtility, being entrufted with fo much power, upon arriving at the army found that the foldiers were refolved on invefling him with the fupreme authority. He therefore feemed to fuffer their importunities, as if through confraint ; and, in the mean time, fent Pbilip word, that he had unwillingly affumed the title of emperor, the better to fecure it for the rightful poffeffor; adding, that he only looked for a convenient opportunity of giving up his pretenfions and title together. Philip knewv mankind too well, to rely upon fuch profeflions : he therefore got

## Philip

 murdered, and is liseceeded by Decius. together what forces he could from the leveral provinces, and led them forward towards the confines of Italy. However, the army was fcarce arrived at Verona, when it revolted in favour of Decius, and fetting violently upon Philip, a centme', with one blow, cut ofil his head, or rather cleaved it afunder, feparating the under jaw from the upper. Such was the deferved death of Philip, in the 45 th year of his age, after a reign of about five years; Decius being univerfally acknowledged as his fucceffor, A. D. 248 .The activity and wifdom of Decius in fome meafure fropped the haftening decline of the Roman empire. The fenate feemed to think fo highly of his merits, that they voted him not inferior to Trajan; and indeed he feemed in every inftance to confult their dimnity in particular, and the welfare of all inferior ranks of people. He permitted them to choofe a cenfor, as was the cufom in the flourifhing times of Rome; and Valerian, his general, a man of fuch ftrict morals, that his life was faid to be a continual cenforfhip, was chofen to that dig-nity.-But no virtues could now prevent the approaching downfall of the ftate : the obitinate difputes between the Pagans and the Chriftians within the empire, and the unceafing irruptions of barbarous nations from without, enfeebled it beyond the power of a remedy. To ftop thefe, a perfecution of the Chriftians, who were now grown the moft numerous body of the people, was impolitically, not to fay unjuftly, begun; in which thoufands were put to deatb, and all the arts of cruelty tried in vain to leffen their growing number. This perfecution was fucceeded by dreadful devaftations from the Goths, particularly in Thrace and Moefia, where they had been moft fuccefsful. Thefe irruptions Decius went to oppofe in perfon; and coming to an engagement with them, flew 30,000 of the barbarians in one battle. However, being refolved to purfue his victory, he was, by the treachery of Gallus his own general, led into a defle, where the king of the Goths bad fecret information to attack him. . In this difadvantageous fituation, Decius firft faw his fon killed with an arrow, and foon after his whole army put to the rout. Wherefore, refolving not to furvive his lofs, he put fpurs to his horfe, and inftantly plunging into a quagmire, was fwallowed up, and his body could never be found after. He died in the 50 th year of his age, after a fhort reign of two years and fix months; leaving the character of an excellent prince, and one capable of averting the deftruction of the empire, if human means could have effected it.
Gallus, who had thus betrayed the Roman army, - had addrefs enough to get himfelf declared emperor by that part of it which furvived the defeat; he was 45
years old when he began to reign, and was defcended from an honourable family in Rome. He bought a dif-

Rome. honourable peace from the enemies of the flate, agrecing to pay a confiderable annual tribute to the Goths, whom it was his duty to reprefs. Having thus purchafed a fhort remiftion from war, by the difgrace of his country, he returned to Fome, to give a loofe to his pleafures, regardlefs of the wretched fituation of the empire.

Nothing can be more deplorable than the fate of Miferable the Roman provinces at this time. The Goths and date of the other barbarous nations, not fatisfied widh their late empire. bribes to continue in peace, broke in upon the eaftern parts of Europe. On the other fide, the Perfians and Scythians committed unheard of ravages in Mefopotamia and Syria. The emperor, regardlefs of every national calamity, was loft in debanch and fenfuality at home; and the Pagans were allowed a power of perfecuting the Chriftians through all parts of the ftate; thefe calamities were fucceeded by a pelitilence; that feemed to have in general fpread over every part of the earth, and which continued raging for feveral years in an unheard of manner; and all thefe by a civil war, which followed fhortly after, between Gallus and his general Emilianus, who having gained a victory over the Gotli, was proclaimed emperor by his conquering amy. Gallus hearing this, was foon roufed from the intoxications of pleafure, and prepared to oppoie his dangerous rival. Both armies met in Mofia, and a battle enfued, in which Emilianus was victorious, and Gallus, with his fon, were fain. His death was merited, and his vices were fuch as to deferve the deteftation of poftcrity. He died in the 47 th year of his age, after an unhappy reign of two years and four months, in which the empire fuffered inexpreffible calamities. Emilianus, after his victory over Gallus, expected to be acknowledged emperor; but he foon found himfelf miferably difappointed. The fenate refuled to acknowiedge his claims; and an army that was flationed near the Alps chofe Valerian, their own commander, to fucceed to the throne. In confe* quence of this, Æmilianus's foldiers began to confider their general as an obflacle to the univerfal tranquillity, and flew him in order to avoid the mifchiefs of a civil war.

Valerian being thus univerfally acknowledged as emperor, although arrived at the age of 70 , fet about reforming the flate with a fpirit that feemed to mark a good mind and unabated vigour. But reformation was then grown almoft impracticable. The difputes between the Pagans and Chriftians divided the empire as before; and a dreadful perfecution of the latter enfued. The northern nations overran the Roman dominions in a more formidable manner than ever; and the empire began to be ufurped by a multitude of petty leaders, each of whom, negleeting the general flate, fet up for himfelf. To add to thefe calamities, the Perfians, Valerian under their king Sapor, invaded Syria; and coming taken priinto Mefopotamia, took the unfortunate Valerian pris foner, and form cruelly ino foner, as he was making preparations to oppole them: fulted by Nothing can exceed the indignities, as well as the cruel-the Perties, which were practifed upon this unhappy monarch, fiss. thus fallen into the hands of his enemies. Sapor, we are told, always ufed him as a footfool for mounting his horfe; he added the bitternefs of ridicule to his inf(ultes;

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Rome. and ufually obferved, That an attitude like that to which Valerian was reduced, was the beft flatue that could be erected in honour of his victory. This horrid life of infult and fufferance continued for feven years, and was at length terminated by the cruel Perfian's commanding his prifoner's eyes to be plucked out, and afterwards cauting him to be flayed alive.

The news of the defeat of the Roman army by the Perfians, and the captivity of Valerian, no fooner reached the barbarous nations at war with Rome, than they poured on all fides into the Roman territories in incredible multitudes, threatening the empire, and Rome itfelf, with utter deftruction. The Goths and Scythians ravaged Pontus and Afia, committing everywhere dreadful devaftations; the Alemanni and Franks having overrun Rhætia, advanced as far as Ravenna; putting all to fire and fword; the Quadi and Sarmatians deized on great part of Dacia and Pannonia; while other barbarous nations, invading Spain, made themfelves mafters of Tarraco and other important places in that province. In the mean time Gallienus, the fon of Valerian, having promifed to revenge his father's captivity, and reprefs the barbarians, was chofen emperor without any oppofition. He was at that time in Gaul ; but haftened into Italy, from whence he drove out the barbarians, either by the terror of his approach, or by overcoming them in battle.In Dacia and Pannonia, alio, the barbarians were driven back by Regillianus, who commanded there, and who is faid to have gained feveral victories in one day.

But in the mean time, one Ingenuus, a man of great seputation in war, and univerfally beloved both by the people and foldiery, caufed himfelf to be proclaimed emperor in Pannonia, where he was generally acknowledged as well as in Mœfa. Gallienus no fooner heard of his revolt, than he marched from the neighbourhood of Ravenna, where he then was, into Illyricum, engaged Ingenuus, and put him to flight. Some authors tell us, that Ingenuus was killed after the battle by his own foldiers; while others affirm, that he put an end to his own life to avoid falling into the hands of Gallienus, leled. The following letter to Verianus Celer, one of his officers, will fhow the difpofition of this emperor: "I fhall not be fatisfied (fays he) with your putting to death only fuch as have bornc arms againft me, and might have fallen in the field: you muft in every city deltroy all the males, old and young; fpare none who lave wifhed ill to me; none who have fpoken ill of me the fon of Valerian, the father and brother of princes. Ingenuius emperor! Tear, kill, cut in picces without mercy : you underfand me; do then as you know 1 would do, who have written to you with my own hand." In confequence of thefe crnel orders, a moft dreadful havock was made among that unhappy people; and, in feveral cities, not one male child was left alive. The troops who had formerly ferved under Ingenuus, and the inhabitants of Mcefia who had efcaped the general flaughter, provoked by thefe cruelties, proclaimed Regillianus emperor. He was a Dacian by birth, defcended. as was faid, from the celebrated king Decebalus whom Trajan had conquered; and had, by feveral gallant actions, gaised reputation in the Roman urmies. After he was proclaimed emperor, he gained
great advantages over the Sarmatians; but was foon after murdered by his own foldiers. Thefe revolts were quickly followed by many others. Indeed it is not furprifing, at a time when the reins of government were held with fo loofe a hand, that a crowd of ufurpers fhould ftart up in every province of the empire. The great number of ufurpers who pretended to the empire about this iime have been diftinguifhed by the name of the thirty tyrants. However, there were only 29 ; viz The ${ }^{15} 4$
 Cyriades, Macrianus, Balifta, Udenatus, and Zenobia tyrants. in the eaft: in Gaul, and the weftern provinces, Pofthumus, Lollianus, Victorinus and bis mother Victoria, Marius, and Tetricus; in Illyricum, and on the confines of the Danube, Ingenuus, Regillianus, and Aureolus; in Pontus, Saturninus; in Ifauria, Trebellianus; in Theffaly, Pifo; in Achaia, Valens; in Egypt, Emilianus; and in Africa, Celfus. Several of thele pretenders to the empire, however, though branded with the opprobrious appellation of tyrants, were eminent examples of virtue, and almoft all of them were poffefled of a confiderable thare of vigour and ability. The principal reafon affigned for their revolt was, the infamous character of Gallienus, whom neither officers nor foldiers could bear to ferve. Many of them, however, were forced by the foldiers to affume the imperial dignity much againft their will. "You have loft," faid Saturninus to his foldiers when they invefted him with the purple, " a very ufeful commander, and have made a very wretched emperor." The apprehenfions of Saturninus were juftified by the event. Of the 19 ufurpers already mentioned, not one died a natural death; and in Italy and Rome Gallienus alone continued to be acknowledged emperor. That prince indeed honoured Odenatus prince of Palmyra with the title of Auguflus, who continued to poffefs an independent fovereignty in the eaft all his lifetime, and on his death tranfmitted it to his wife Zenobia. See Palmyra.

The confequences of thefe numerous ufurpations were Fatal come, the moft fatal that can be conceived. The elections of quences of thefe precarious emperors, their life and death, were thefeufurequally deftructive to their fubjects and adherents. The pations. price of their elevation was imftantly paid to the troops by an immenfe donative drawn from the exhaufted people. However virtuous their character, and however pure their intentions might be, they found themfelves reduced to the neceffity of fupporting their ufurpation by frequent acts of rapine and cruelty. When they fell, they involved armies and provinces in their fall, as appears from the letter of Gallienus already quoted. Whilf the forces of the fate were difperfed in private quarrels, the defencelefs provinces lay expofed to every invader. The biaveft ufurpers were compelled, by the perplexity. of their fituation, to conclude dithonourable treaties with. the barbarians, and even to fubmit to fhameful tributes, and introduce fuch numbers of barbarians into the Ro. man fervice as feemed futficient at once to overthrow the. empire.

But when the empire feemed thus ready to fink at Gallierus once, it fuddenly revived on the death of Gillienus, who mu dered, was murdered by Martian, one of his own generals, and is iecwhile he befieged. Aureolus, one of the tyrants, in Mi - claud on lan. His death gave general fatisfaction to all, except his foldiers, who hoped to reap the reward of their trear chery by the plunder of Nilan. But bcing fruftrated in thefe expectations, and in fome meafure l.ept. within

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Rome. $\xrightarrow{\text { Rome }}$ boukds by the largeffes of Martian, Flavius Claudius was nominated to fucceed, and joyfully accepted by all orders of the flate, and his title confirmed by the fenate and the people.
We are not fufficiently affored of this emperor's lineage and country. Some affirm that he was born in Dalmatia, and defcended from an ancient family there ; others affiert that he was a Trojan ; and others, that he was fon the emperor Gordian. But, whatever might have been his defcent, his merits were by no means doubtful. He was a man of grest valour and conduct, having performed the moft eminent fervices againt the Goths, who had long continued to make irruptions into the empire. He was now about 55 years old, equally remarkable for the Arength of his body and the vigour of his mind; he was chafle and temperate, a rewarder of the good, and a fevere punifher of fuch as tranfgreffed the laws. Tbus endowed, therefore, he in forme meafure put a flop to the precipitate decline of the empire, and once more feemed to reflore the glory of Rome.

His firft fuccefs, upon being made emperor, was againtt Aureolus, whom he defeated near Milan. His next expedition was to oppofe the Goths, againit whom retrievesthe he led a very numerous army. Thefe barbarians had aftairs of the empire. made their principal and moft fucceffful irruptions into Thrace and Macedonia, fwarmed over alt Greece, and had pillaged the famous city of Athens, which had long been the fchool of all the polite arts to the Romans. The Goths, however, had no veneration for thofe embellifhments that tend to foften and humanize the mind, but deftroyed all monurzents of tafte and learning with the moff favage alacrity. It was upon one of thefe occafions, that, having heaped together a large pile of books in order to burn them, one of the commanders diffuaded them from the defign, alleging, that the time which the Grecians fhould wafte on books would only render them more unqualified for war. But the empire feemed to tremble, not only on that fide, but almoft on every quarter. At the fame time, above 300,000 of thefe barbarians (the Heruli, the Trutangi, the Virturgi, and many namelefs and uncivilized nations) came down the river Danube, with 2000 fhips, fraught with men and ammunition, fpreading terror and devaftation on every fide.

In this flate of univerfal difmay, Claudius alone feemed to continue unithaken. He marched his difproportioned army againft the favage invaders; and though but ill prepared for fuch an engagement, as the forces of the empire were then employed in different parts of the world, he came off vietorious, and made an incredible flaughter of the enemy. The whole of their great army was either cot to pieces or taken prifoners: houfes were filled with their arms ; and fearce a province of the empire, that was not furnifhed with flaves from thofe that furvived the defeat. The fuccelles were followed by many others in difierent parts of the empire ; fo that the Gothe, for a confiderable time afier, made but a feeble oppofition. He fome time after marched againt the revolted Germans, and overthrew then with confiderable flaughter, His laft expedition was to oppofe
Cha.is 'Setricus and Zerobia, his two puifiant rivals in the em${ }^{C l h}$ aid ${ }^{\text {nid }}$ s pire. But on his march, as he approached near Sirmi$\left.{ }_{\square}\right)$ fucseced. um, in Pannonia, he was feized with a peffilential feed by dure-ver, of whicl he died in a few days, to the great regret
of his fubjechs, and the irreparable lofs of the Roman empire. His reign, which was not of quite two years continuance, was active and fuccefisful; and fuch is the character given of hin by hitlorians, that he is faid to have united in himfelf the moderation of Auguftus, the valour of Trajan, and the piety of Antoninus.
Immediately after the death of Clandius, the army made unanimous choice of $\Lambda u r e l i a n$, who was at that time mafter of the horfe, and efteemed the mall valiant commander of his time. However, lis promotion was not without oppofition on the part of the fenate, as Quintillus, the brother of the deceafed emperor, put in his claim, and was for a while acknowledged at forme. But his authority was of very thort duration ; for finding himfelf abandoned by thofe who at firlt infligated him to declare for the throne, he chofe to prevent the feverity of his rival by a voluntary death, and caufing his veins to be opened, expired, after having reigned but 17 days.

Aurelian being thus univerfally acknowledged by all the fates of the empire, aflumed the command, with a greater fow of power than his predeceflors had enjoyed for fome time before. This active monarch was born of mean and obfcure parentage in Dacia, and was about 55 years old at the time of his coming to the throne. He had fpent the early part of his life in the army, and had rifen through all the gradations of military duty. He was of unfhaken courage and amazing ilrength; he in one engagement killed 40 of the enemy with his own hand, and above 900 at feveral different times. In fhort, his valour and expedition were fuch, that he was compared to Julius Cæfar; and, in fact, only wanted mildnefs and clemency to be every way his equal.

The whole of this monarch's reign was fpent in re- His great ${ }^{419}$ prefing the irruptions of the northern nations, in hum-fucceis bling every other pretender to the empire, and punith- ${ }^{\text {againf }}$ hathe ing the monftrous irregularities of his own fubjects. He ${ }^{\text {barbariznc. }}$ defeated the Marcomanni, who had invaded Italy, in three feveral engagements, and at length totally delliroyed their army. He was not lefs fucceffful againt Zenobia, the queen of the Ealt, a woman of the moft heroic qualifications, who had long difclaimed the Roman power, and eftablihhed an empire of her own, as is related under the article Palmyra.

Aurelian having thus brought back peace to the empire, endeavoured, by the rigours of juflice, to bring back virtue allo. He was very ftriet in punifhing the crimes of the foldiery: in his orders to bis lieutenants, he infifted that the peafants fhould not be plundered upon any pretences; that not even a grape, a grain of falt, or a drop of cil, fhould be exacted unjuftiy. He caufed a foldier, who had committed adultery with his hoflefis, to have his feet tied to the tops of two trees, forcibly bent at top to meet each other; which being let loofe, and fuddenly recoiling, tore the criminal in two. This was a feverity that might take the name of cruelty; but the vices of the age, in fome meafure, required it. In thefe punithments inflicted on the guilty, the Chrillians, who had all along been growing more numerous, were fharers. Againft thefe he drev up feveral letters and ediets, which flowed that he intended a very fevere perfecution; but if we may believe the. credulous hiforians of the limeng, he was diverted juters

## R ○ M [ $\left.23^{8}\right]$ R O M

Rame. he was going to fign them by a thunderbolt, which fell fo near his perfon, that all the people judged him to be daRroyed.

But, however Heaven might have interpofed on this occafion, it is certain that his feverities at lait were the caufe of his deftruction. Meneflhus, bis principal fecretary, having been threatened by him for fome fault which he-had committed, began to confider how he might prevent the meditated blow. For this purpofe, he forged a roll of the names of feveral perfons, whom he pretended the emperor had marked out for death, adding lis own to ftrengthen him in the confidence of the pariy. The feroll thus contrived was thown with an air of the utmoft fecrecy to fome of the perfons concerned; and they, to procure their fafety, immediately agreed with him to deftroy the emperor. This refolution was foon put in execution ; for, as the emperor paffed with a finall guard from Uraclea, in Thrace, towards Byzantium, the confpirators fet upon him at once, and Alew him with very fmall refiftance. He was flain in the 60 th, or, as fome fay, in the 63 d year of his age, after a very active reign of almolt five years.

The number of pretenders to the throne, which had formerly infetted the empire, were, by the laft monarch's activity, fo entirely removed, that there now feemed to ke none that would venture to declare himfelf a candidate. The army referred the choice to the fenate; and, on the other fide, the fenate declined it: fo that a fpace of near eight months elapfed in thefe negociations. At length, however, the fenate made choice of Tacitus, a man of great merit, and noway ambitious of the honours that were offered him. Upon being folicited to accept the empire, he at firft refufed, and retired to his couniry houfe in Camparia, to avoid their importunities; but being at length prevailed upon, he accepted the reins of government, being at that time 75 years old.

One of the firf acts of his government was the punifhment of thofe who had confpired againft the late emperor. Menefthus was impaled alive, his body being thrown to be devoured by wild beafts; his ettate alfo was confifcated to the exchequer; and his ready money, which was very confiderable, applied towards paying the army. During this fhort reign, the fenate feemed to have a large fhare of authority, and the hiftorians of the times are liberal of their praifes to fuch emperors as were thus willing to divide their power.Upon endearouring to obtain the confulhip for his brother Probus, he was refufed it by the fenate; at which he feemed no way moved, but calmly remarked that the fenate beft knew whom to choofe. This moderation prevailed in all the reft of his conduct: he was extremely temperate; his table was plain, and furnifhed with nothing expenfive; he even prohibited his emprefs from wearing jewels, and forbade the ufe of gold and embroidery. He was fond of learning, and the memory of fuch men as bad deferved well of their country. He particularly efteemed the works of his namefake Tacitus the hiftorian; commanding that they flould be placed in every public library throughout the empire, and that many copies of them fhould be tranicribed at the public charge. A reign begun with fuch moderation and juffice, only wanted continuance to have raade the empire happy; but after enjoying the empire about fix months, he died of a fever in his march to op-
pofe the Perfians and Scythians, who had invaded the eaftern parts of the empire.

Upon the death of Tacitus the army feemed divided in the choice of an emperar; one part of it chofe Flo rianus, brother to the deceafed; but the majority were for fome time undetermined. They alleged amongit each other the necetifity of choofing one eminent for valour, honour, piety, clemency, and probity ; but the lat virtue being that chiefly infitled upon, the whole army, as if by common confent, cried out that Probus fhould be emperor. He was accordingly confirmed in this dignity with the ufual folemnities: and Florianus finding himfelf deferted, even by thove legions who had promiled to ftand up in his fupport, opened his arteries and bled himfelf to death.

Probus was 44 years old, when he afcended the Probnc ${ }^{423}$ throne, being born of noble parentage at Sirmum in fed to the Pannonia, and bred up a foldier from his youth. He empire. began early to dittinguifh himfelf for his ditcipline and valour ; being frequently the firft man who in befieging towns fcaled the walls, or that buift into the enemy's camp. He was no lefs remarkable for fingle combats, and faving the lives of many eminent citizens. Nor was his activity and courage, when eleicted to the enrpire, lefs apparent, than in his private fation. He firft repieffed the Germans in Gaul, of whom he flew $400,0 c 0$. He then marched into Dalmatia, to oppofe and fubdue the Sarmatians. From thence he led his forces into Thrace, and forced the Goths to fue for peace. He-af- His ${ }^{424}$ ter that turned his arms towards Afia; fubdued the quefts. province of Ifauria; and marching onward, conquered a people called the Blemyes; who, leaving their native forefts of Ethiopia, had poffeffed themfelves of Arabia and Judea, and had continued in a ftate of rebellion fince the reign of Gallienus. Narfes alio, the king of Perfia, fubmitted at his approach : and upon his retum into Europe, he divided the depopulated parts of Thrace among its barbarous invaders : a circumitance that afterwards produced great calamities to the empire.

His diligence was not lefs confpicuous in fuppreffing inteftine commotions. Saturninus, being compelled by the Egyptians to declare himfelf emperor, was defeated and flain. Proculus alfo (a perfon remarkable only for his great attachment to women, and who boafted in a letter, that, having taken 100 Sarmatian virgins prifoners, he deprived ten of that name in one night, and all the reft within a fortnight) (et up againft the emperor; but was compelled to fly, and at length delivered up by the Germans. At the fame time Bonofus (who was a remarkable votary to Bacchus, being able to drink as much wine as ten could do, without being difordered) rebelled, and being overcome banged himfelf in defpair. Probus, when he faw lim immediately after his death, could not avoid pointing to him, and faying, "There hangs not a man but a cafk:" Still, however, notwithlanding every effort to give quiet to the empire, the barbarians who furrounded it kept it in continual alarms. They were frequently repulfed into their native wilds, but they as certainly returned with frefh rage and increafed ferocity. The Gotbs and Vandals, finding the emperor engaged in quelling domeftic difputes, renewed their accuftomed inroads, and once more felt the punifhment of their prefumptions. They were conquered in feveral engagements; and Probus returned in triumph to Rome. His active temper, however, would

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R cime:.

4:5 Is murdered.

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Reigns of Carus, Ca. rinus, and Numerianass.
not fuffer bim to continue at ref whilit fingie enemy was left to conquer. In his lait expedition he led his foldiers againtt the Perfians; and going through Sirmium, the place of bis nativity, he there empluyed feveral thoufands of his foldiers in draining a fen that was incommodious to the iniabitants. The fatigues of this undertaking, and the great reftraint that was laid upon the foldiers licentious manners, prodaced a confpiracy, which ended in his ruin: for tahing the opportunity as he was marching into Greece, they let upon and flew him after he had reigned fix years and four months with general approbation.

Carus, who was prætorian prefect to the deceafed emperor, was cholen by the army to fucceed him ; and he, to Itrengthen his authority, named his tiso fons Carinus and Numerianus with him in command; the former of whom was as much fullied by his vices, as the youngeft was virtuous, modett, and courageous. The new emperor had farce time to punith the murderers of the late monarch, when he was alarmed by a frefh irruption of the Sarmatians; over whom he gained a fignal victory. The Perfian monarch al:o made fome attempts upon the empire; but Carus affured his ambaffadors, that it their mafter perfifted in his obftinacy, all his fields fhould thortly be as bare as his own bald head, which he fhowed them. In confequence of this threat, he marched to the very walls of Ctefiphon, and a dreadful battle enfuing, he once more gained a complete victory. What the reiuit of this fuccefs might have been, is not known ; for he was fhortly after ftruck by lightning in his tent, with many others that were round him. Numerianus, the youngelt fon, who accompanied bis father in this expedition, was inconfolable for his death; and brought fuch a diforder upon his eyes with weeping, that he was obliged to be carried along with the army, fhut up in a clofe litter. The peculiarty of his fituation, after fome time, excited the ambition of Aper, his father-in-law, who fuppofed that he could now, without any great danger, aim at the empire himfelf. He therefore hired a mercenary villain to murder the emperor in his litter; and the better to conceal the fact, gave out that he was ftill alive, but unable to endure the light. In this manner was the dead body carried about for fome days, Aper continuing to attend it with the utmoit appearance of refpect, and to take orders as ufual. The offenfivenefs, however, of its fraell at length difcovered the treachery, and excited an univerfal uproat throughout the army. In the midft of this tumult, Dioclefian, one of the moft noted commanders of his time, was chofen emperor, and with his own hand flew Aper; having thus, as it is faid, fulfilled a prophecy, which bad faid, that Dioclefian fhould be emperor after he bad flain a boar; alluding to the name of his rival, which fignifies a boar. Carinus, the remaining for, did not long furvive his father and brother ; for giving himfelf up to his vices, and yet at the fame time oppofing the new-made emperor, the competitors led their forces into Mlafia; where Dioclefian being victorious, Carinus was flain by a lribune of hls own army, whofe wife he had formetly abufed. eounted, accoording to fome, the fon of a ferivelier; and of a flive, according to others. He received his name from Dioclea, the town in which he was born ; and was
about 40 years old when he was elected to the empire. He pardoned all who had joined Carinus, without injuring either their furtunes or bonours. Confcious alfo that the weight of empire was too heavy for one alone to fuftain, he took in Maximian, his general, as a partner in the fatigues of duty, making him his equal and companion on the throne. 'Thus mutually affiting each $\Gamma$ askes 428 other, thefe two continucd to live in frict friendhhip; rumian for and though fomewhat differing in temper (as Maximian his partner. was rather a man of vicious inclinations), yet they concurred in promoting the general good, and humbling their enemies. And it mult be oblerved, that there never was a period in which there were more numerous or formidable enemies to oppofe.

The peafants and labourers in Gaul made a dange-Lurrecrous infurrection, under the conduct of Amandus and ${ }^{\mathrm{t}} \mathrm{ns}$, and Helianus, but were fubdued by Maximian. Achilleus, miterc. who commanded in Egypt, proclaimed himfelf emperor ; and it was not without many bloody engagements that he was overcome, and condemned by Dioclefian to be devoured by lions. In Africa, the Roman legions, in like manner, joined with many of the natives, feized upon the public revenues, and plundered thofe who continued in their duty. Thefe were allo lubdued by Maximian ; and, after a long dubious war, conftrained to fue for peace. About the fame time, a principal cormmander in Britain named Caraufius, proclaimed himfelf em. peror, and pofiefied himfelf of the ifland. To oppofe this general's claims, Maximian made choice of Conftantius Chlorus, whom he created Cæfar, and married to Theodora his daughter-in-law. He, upon his arrival in Britain, finding Caraufius very ftrong, and continually reinforced from Germany, thought proper to come to an accommodation; fo that this ufurper continued for feven years in quiet pofteffion of the whole ifland, till be was flain by Alectus, his friend and intimate. About this time alfo, Narfes, king of Perfia, began a danger. ous war upon the empire, and invaded Mefopotamia. To ftop the progrefs of the enemy unon this quarter, Dioclefian made choice of Galerius (furnamed Armentarius, from the report of his being born of a cow-herd in Dacia) ; and he likewife was created Ciefar. His fuccefs alfo, though very doubtful in the beginning, was in the end terminated according to his wifhes. The Perfians were overcome in a decifive engagement, their camp plundered and taken, and their king's wives and. children made prifoners of war. There only remained, of all the enemies of the Roman empire, thofe who lay to the northward unfubdued. Thefe were utterly unconquerable, as well upon account of their favage fierce. nefs, as the inhofpitable feverity of the climate and foil from whence they iffued. Ever at war with the Romans, they iffued forth, when the armies that were to reprefs their invafions were called away; and upon their return, they as fuddenly withdress into cold, bar? ren, and inacceffible places, which only themfelves could endure. In this manner the Goths, Sarmatians, Alani, Quadi, \&c. poured down in incredible numbers; while every defeat fcemed but to increafe their ftrength and perfeverance. Of thefe, multitudes were taken prifoners, and fent to people the more foutheri parts of the empire; fill greater numbers were deltroy * ed; and though the reft were driven back to their nad Live forefts, yet. they continued ever mindful of theit 1. , 2.A

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Rome. inveteraic enmity, and, like a favage beaf, only continued inactive, till they had licked their wounds for a new encounter.

The Chriftians cruel. ly perfecuted.

43 r Dioclefian and Makimian refign.

During this interval, as if the external miferies of the empire were not fufficient, the tenth and laft great perfecution was renewed againtt the Chrittians. This is faid to have exceeded all the former in feverity : and fuch was the zeal with which it was purfued, that, in an ancient infcription, we are informed that they had effaced the name and fuperftition of the Chriftians, and had reftored and propagated the worlhip of the gods. Their attempts, however, were but the malicious efforts of an expiring party; for Cbrifianity thortly after was eftablifhed by law, and triumphed over the malice of all its enemies. In the midft of the troubles raifed by this perfecution, and of the contcfts that truck at the internal parts of the fate, Dioclefian and Maximian furprifed the world by refigning their diguities on the fame day, and both retiring into private fations. Hiftorians are much divided concerning the motives that thus induced thern to give up thofe honours which they had purchafed with fo much danger. Some afcribe it to the philofophical turn of Dioclefian; and others, to his being difgufted with the obltinacy of his Chriltian fubjects: but Lactantius afferts, that he was compelled to it, together with his partner, by Galerius, who coming to Nicomedia, upon the emperor's recovery from a great ficknefs, threatened him with a civil war in cafe he refufed to refign. However, of this we are well affured, that he ftill preferved a dignity of fentiment in bis retirement, that might induce us to believe he had no other motive for refignation than the love of quiet, and the confcioufnefs of his inability to difcharge on a fick-bed the duties of a fovereign. Having retired tolis birth-place, be fpent his time in cultivating his garden, affuring his vifitors that then only he began to enjoy the world, when he was thought by the reft of mankind to forlake it. When alfo fome attempted to perfuade him to refume the empire he replied, That if they knew his prefent happinefs, they would rather endeavour to imitate than difturb it. In this contented manner he lived fome time, and at laft died either by poifon or madnefs, it is uncertain which. Fis reign, which continued 20 years, was active and ufeful; and his authority, tinctured with feverity, was well adapted to the depraved ftate of morals at that time.

Maximian, his partner in the empire and in refignation, was by $n o$ means fo contented with his fituation. He longed once more for power, and difturbed the two fucceeding reigns with various efforts to refume it; attempting to engage Dioclefian in the fame defign. Being obliged to leave Rome, where he had bred great confufion, he went over into Gaul, where he was kindly received by Conftantine, the then acknowledged emperor of the weft. But here alfo continuing his intrigues, and endeavouring to force his own daughter and deftroy her hußband, he was detefted, and condemned to die by whatever death he fhould think proper; and Lastantius tells us that he chofe hanging.

Upon the refignation of the two emperors, the two Cæfars whom they had formerly chofen were univerfally acknowledged as their fucceffors. Conftantius Chlorus, who was fo called from the plainnefs of his complexion, was virtuons, valiant, and merciful. Galerius, on the other kand, was brave, but brutal, incontinent,
and cruel. As there was fuch a difparity in their teme pers, they rcadily agreed, upon coming into full powcr, to divide the cmpire; Conftantiss being appointed to govern the weftern parts; namely, Italy, Sicily, the greatelt part of Africa, together with Spaio, Gaul, Britain, and Germany; Galerius had the eattern patts allotted to his fhare ; to wit, Illyricum, Pannonia, Thrace, Macedonia, all the provinces of Greece, and the Leffer Afia, together with Egypt, Syria, Judea, and all the countries eatward. The greatnefs of the divifion, however, foon induced the emperors to take in two partners more, Severus and Maximin, who were made Cæfars, and affirted in the conducting of affairs; fo that the empire now was under the guidance of four perfons, all invefted with fupreme authority.

We are informed but of few particulars of the reign of Conftantius, except a detail of his character, which appears in every light moft amiable. He was frugal, chafte, and temperate. His mercy and juflice were equaliy confpicuous in his treatment of the Chriftians, whom he would not fuffer to be injured; and when at length perfuaded to difplace all the Chriftian officers of his houfehold that would not change their religion, when fome of them complied he fent them away in difgrace; alleging, that thofe who were not true to their God, would never be faithful to their prince.

In the fecond year of his reign be went over into Bratain; and leaving his fon Conftantine as a kind of hoftage in the court of his partner in the empire, took up his refideoce at York. He there continued in the practice of his ufual virtues; till falling fick, he began to think of appointing his fon for his fucceffor. He accordingly fent for him with all fpeed; but be was paft recovery before his arrival : notu ithftanding, he reeeived him with marks of the utmoft affection, and raifing himfelf in his bed, gave him feveral ufeful inftructions, particularly recommending the Chriftians to his protection. He then bequeathed the empire to his care; and crying out, that none but the pious Conftantine fhould fucceed him, he expired in his arms.

In the mean time, Galerius, his partner in the cm pire, being informed of Conflantine's advancement, teftified the moft ungovernable rage, and was even going to condemn the mefienger who brought him the account: but being difinaded, be feemed to acquiefce in what he could not prevent, and fent him the marks of royalty; but at the fame time declared Severus emperor, in oppofition to his interefts. Juft about this time alfo, another pretender to the empire flarted up. This was 4033 MJaxentius, a perfon of mean extraction; but very much ufurps the favoured by the foldiers, whom he permitted to pillage throne. at difcretion. In order to oppofe Maxentius, Severus led a numerous army towards the gates of Rome; but .his foldiers confidering againft whom they were to fight, immediately abandoned him; and fortly after he put an end to his own life, by opening hris veins. To revenge his death, Galerius marched into Italy, refolving to ruin the inhabitants, and to deftroy the whole fenate. His foldiers, however, upon approaching the capital began to waver in their refolutions: wherefore he was obliged to have recourfe to intreaties, imploring them not to abandon him; and, retiring by the fame route by which he had artvanced, made Licinius, who was originally the fon of a poor labourer in Dacia, Csefars in the room of Severus who was flain. This feem-

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ed to be the laft act of his power ; for thortly after he was feized with a rery extraordinary diforder in his privitics, which baffled all the flill of his phyficians, and carried him off, afier he had languifhed in torments for near the fpace of a year. His cruelty to the Chriflians was one of the many crimes allcged againft him; and their liftorians have not failed to aggravate the circumblances of his death as a judgment from Heaven for his former impiety. However this be, he abated much of his feverities againft them on his deathbed; and revoked thofe edicts which he had formerly publifhed, tending to their perfecution, a little before his death.

Conftantine being thus delivered from his greateft opponent, might now be confidered as poffeffing more power than any of his rivals who were yet remaining. The empire was at that time divided between him and three others: Maxentius, who governed in Rome, a perfon of a cruel difpofition, and a fiedfaft fupporter of paganifm; Licinius, who was adopted by Galerius, and commanded in the eaft; and likewife Maximin, who had formerly been declared Cæfar with Severus, and who alfo governed fome of the eaftern provinces.

For fome time all things feemed to wear a peaceful appearance; till at length, either ambition, or the tyrannical conduct of Maxentius, induced Conftantine to engage in an expedition to expel that commander from Rome, and to make the proper preparations for marching into Italy. It was upon this occafion that he formed a refolution which produced a mighty change in the politics as well as the morals of mankind, and gave a new turn to the councils of the wife, and the purfuits of ambition. One evening, as we are told by Eufebius, the army being upon its march toward Rome, Con. flantine was taken up with various confiderations upon the fate of fublunary things, and the dangers of bis approaching expedition : fenfible of bis own incapacity to fucceed without divine affiftance, he employed his meditations upon the opinions that then were chiefly agitated among mankind, and fent up his ejaculations to Heaven to infpire him with wifdom to choofe the path he ought to purfue. It was then, as the fun was declining, that there fuddenly appeared a pillar of light in the heavens, in the form of a crofs, with this infription, TOYT $\Omega$ NIKH, "In this overcome." So extraordinary an appearance did not fail to create aftonifhment both in the emperor and his whole army, who confidered it as their difpofitions led them to believe. Thofe who were attached to paganifm, prompted by their aufpices, pronounced it a moft inaufpicious omen, portending the mof unfortunate events. But it made a different impreffion on the emperor's mind ; who, as the account goes, was farther encouraged by vifions the fame night. He thercfore, the day following, caufed a royal ftandard to be made, like that which he had feen in the heaverts; and commanded it to be carried before him in his wars, as an enfign of viefory and celeftial protection. After this, he confulted with feveral of the priscipal teachers of Chrinianity, and made a public avotral of that facred perfuafion.

Conftantine having thus attached to his intereft his foldiers, who were mofly of the Chriftian perfuafion, loft no time in entering Italy with 90,000 foot and 8000 horfe; and foon advanced to the very gates of Rome. The unfertunate Maxentics, who had long gi-- Toz. XVIII. Patt I.
ven himfelf up to cafe and debauche:y, now beyan to make preparations when it was too late. He firit put in practice all the fupertlitious rites which paganilia taught to be neceffary; and then confulted the sib)!line books; from whence he was informed, that on dibl died great dill great day the enemy of Rome thould perith. This pre. diction, which was equirocal, he applied to Conflaittine; fo that, leaving all things in tire belt polture, he advanced from the city with an army of 100,000 foot and 18,000 hoife. The engagement was for fume time fierce and bloody, till his cavalry being routad, victory declared upon the fide of his opponent, and be himfelf was drowned in his flight by the breaking down of a bridge as he attempted to crols the river lijer.

Conftantine, in confequence of this victory, entering the city, difclaimed all praifes which the fenate and people were ready to offer; afcribing his fuccefs to a fupcrior porver. He even caufed the crofs, which it is faid he faw in the heavens, to be placed at the right of all his ftatues, with this infeription: "That under the influence of that victorious crols, Confantine had delivered the city from the yoke of tyrannical power, and had reftored the fenate and people of Rome to their ancient authority." He afterwards ordained, that no criminal fhould for the future fuffer death by the crofs; which had formerly been the moft ufual way of punifhing flaves convicted of capital offences. Edicts were foon after iffued, declaring that the Chriftians fhould be eafed from all their grievances, and received into places of truft and authority. Thus the new religion was feen at once to prevail over the whole Roman empire; and as that enormous fabric had been built and guided upon pagan principles, it loft a great deal of its ftrength and coherence when thofe principles were thus at once fubverted.

Things continued in this flate for fome time, Conftantine all the while contributing what was in his power to the intereft of religion, and the revival of leating, which had long been upon the decline, and was almoit wholly extinct in the empire. But in the midil of thele affiduities, the peace of the empire was again difturbed by the preparations of Maximin, who governed in the eaft, and who, defirous of a full participation of power, marched againlt Licinius with a vety numerous army, Makimin In confequence of this flep, after many conflicts, a ge-defeat and neral engagement enfued, in which Miximin fuffered. a death. total defeat; many of his troops were cut in pieces, and thofe that furvived fubmitted to the conqueror. Maximin, however, having efcaped the general catnage, once more put himfelf at the head of another army, refolving to try the fortune of the field; but death prevented his defign. As he died by a very extraordinary kind of madnefs, the Chriftians, of whom he was thic declared enemy, did not fail to afcribe his end to a judgment from leaven; but this was the age in which falfe judgments and falfe miracles made up the bulk of their uninftructive hiftory.

Conftantine and Licinus thus remaining undifputed $4^{-9}$ poffeffors and partners in the empire, all things promi- w... befed a peaceable continuance of friendthip and powti, tive n Cup. However, it was foon found, that the fame ambicion wi Litithat aimed after a part, would be content with nothing ...ts. lefs than the whole. Pagan writers afcribe the rupture between theie two petentates to Conflantine; while the Chritions, on the other hand, impute it wholly to

## R O M [ $2 \neq 2$ ] R O M

Rome. Licinius. Both, perhaps, might have concericd: for Licinius is convicted of having perfecuted Chrilianity, which was fo highly favoured by his rival ; and Conflantine is known to have been the firft to begin the preparations for an open rupture. Beth fales exerted all their power to make oppofition; and at the lead of very formidsble armies, came to an engagement near Cybalis, in Parnonia. Conftantine, previous to the battle, in the midit of his Chriltian bihops, begged the affitance of Heaven; while Licinius, with equal zeal, called upon the pagan priffs to intercede with the gods in his favour. Conflantine, after an obitinate reflilance from the enemy, became victorions; took their camp; and, after fome tinne, compelied Licinius to fue for a truce, which was agreed upot. But this was of no long continuance; for foon after, the war breaking out afiefh, and the rivals coming once more to a general engagement, it proved decifive. Licinius was entirely defeated, and purfued by Conftantine into Nicomedia, where he furrendered himfelf up to the victor; having firf obtained an oath that his life fhould be fpared, and that he fhould be permitted to pals the remainder of his days in retirement. This, however, Conflantine fhortly after broke; for either fearing his defigns, or fuiding him atually engaged in frefl confpiracies, he commanded him to be put to dcath, together with Martian his ge:eral, who fome time before had been created Cesfar.

Confontize being now fole monareh of the empire, without a rival to divide his power, or any perfon from whofe claims he could have the leaf apprehenfions, refolved to eftablifh Chriftianity on fo fure a balis, that no new regulations fhould thake it. He commanded that in all the provinces of the empire the orders of the bifirops fhould be exactly obcyed; a privilege of which, in fucceeding times, thefe fathers made but a very indifferent ufe. He called alfo a general council of thefe, to meet at Nicea, in order to reprefs the herefies that had already crept into the church, particularly that of Arius. To this place repaired about 3 i S bilhops, befides a multitude of prefbyters and deacons, together with the emperor himfelf; who all, to about 17 , concurred in condemaning the tenets of Arius ; who, with his aflociates, was banifhed into a remote part of the empire.

Having thus reftored univerfal tranquillity to the empire, he was not able to ward off calamities of a more domeftic nature. As the hiftories of that pericd are entirely at variance with each other, it is not eafy to difcover the motives which induced him to put his wife Faufta and his fon Crifpus to death. The moft plaufible account is this: Faufta the emprefs, who was a woman of great beauty, but of extravagant defires, had long, though fecretly, loved Crifpus, Conftantive's fon by a former wife. She had tried every art to infpire this youth with a mutual paffion; but, finding her more difant efforts ineffeclual, had even the confiderice to m: ke him an open confeffion of her defires. This produced an explanation, which was fatal to both. Crif pu:s received her addreffes with deteflation; and fhe, to he revenged, accufed him to the emperor. Conflantine, fired at once with jealoufy and rage, ordered him to die without a hearing; nor did his innocence appear till it was too late for redrefs. The only reparation, therefore that remained, was the putting Faufta, the wicked inftrument of his former cruelty, to death; which was
accordingly executcd upon her, together with fome others who had been accomplices in her falfelood and treachery.

But the private misfortunes of a few were not to be weighed againft evils of a more general nature, which the Roman empire ftortly after experienced. Thefe 44 r arofe fiom a meafure which this emperor conceived and the frat of executed, of transferring the fat of the empire fromempire to Rome to Byzantium, or Confantinople, as it was after-Contartiwards called. Whatever might have been the reafons ${ }^{\text {nopte. }}$ which induced him to this undertahing; whether it was becaufe he was offended at fome affronts he recejved at Rome, or that he fuppofed Conftantinople more in the centre of the empire, or that he thought the eaftern parts more required his prefence, experience has fhown that they were weak and groundlefs. The erapire had long before been in the moft declining ftaie; but this in a great meafure gave precipitation to its downfall. After this it never refumed its former fplendor, but languifhed.

His firf defign was to build a city which he might make the capital of the world; and for this purpole, he made choice of a fituation at Chalcedon in A fia Niinor ; but we are told, that in laying out the groundplan, an eagle caught up the hine and flew with it over to Byzantium, a city which lay upon the oppofite fide of the Bofphorus. Hese, therefore, it nas thought expedient to fix the feat of the empire ; and indeed nature feems to have formed it with all the conveniences and all the beauties which might induce power to make it the feat of refidence. It was fituated on a plain that rofe gently from the waler; it commanded that ftrait which unites the Moditerranean with the Euxine fea, and was fumifhed with all the advantages which the mofl indulgent climate could beftow. This city, therefore, he beautified with the moft magnificent edifices; he divided it into 14 regions; built a capit.pl, an amphitheatre, many churches, and other public works; and having thus rendered it equal to the magnificence of his idea, he dedicated it in a very folemn manner to the God of martyrs ; in about two years after, repaining thither with his whole court.

The removal produced no immediate alteration in the government of the empire; thie inhabitants of Rome, though with reluctance, fubmitted to the change; nor was there for two or three ycars any difurbance in the ftate, until at length the Goths, finding that the Romans had withdrawn all their garrifons along the Da. nube, renewed their inroads, and ravaged the country with unheard-of cruelty. Conftantine, however, foon reprefled their incurfions, and fo ftraitencd them, that near 100,000 of their number periftied by cold and hunger. Thefe and fome otker infurrections being happily fuppreffed, the gove-nment of the empire was divided as follows. Conflantine, the emperor's eldeft fon, commanded in Gaul and the weftern prorinces ; Conftantius governed Africa and lllyricum; and Conltans ruled in Italy. Dalmatius, the emperor's brother, was fent to defend thofe rarts that bordered upon the Goths; and Annibalianus, his neplew, tad the charge of Capprdocia and Armenia Minor. This divifion of the empire fill farther contributed to its downfall: for the vnitud firength of the flate heing no longer brought to reprefs invafions, the barbarians fought with fuperior numbers; and conquered at lait, though often defeated.

Conftantine,

## R O M [ $2+3$ ] R O M

K-me. Conftantine, however, did not live to feel thefe calamities. The latter part of his reign was peaceful and fplendid; ambaffadors from the remoteft Indies came to acknowledge bis authority; the Perfians, who were ready for frelh inroads; upon finding him prepared to oppofe, fent hamb!y to defire his friendihip and forgivenels. He was above 60 years old, and had reigncd above 30 years, when he found his health began to decline. 'To obviate the effucts of his diforder, which was an intermitting fever, he made ufe of the warm baths of the city; but receiving no benefit from thence, he removed for clange of air to Helenopolis, a city which he had built to the

4:2
Derth of Confta:1tine.
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Rei $\sum n$ of Valentiдіал. nemory of his mother. His diforder increafing, he changed again to Nicomedia; where finding himfelf without hopes of recovery, he caufed himelf to be buptized; and having foon after received the facrament, he expired, after a memorable and active reign of 32 years. This monarch's character is reprefented to us in very different lights: the Chrilian writers of that time adorning it with cvery ftrain of panegyric ; the heathens, on the contrary, loading it with all the virulence of invective. He ellablihted a religion that continues the bleffing of mankind; but purfued a fcheme of politics that deffrovel the empire.

From the time of Comfantine to the divifion of the empire betucen Valentimian and his brother Valens, the hiftury of Rome is related under the article Constantivople, where alfo that of the eaftern part is carried down to the final defruction of that city by the T'urks. In the begiming of the raign of Valentinian, the province of Libya Tripolitana was grievoufly oppreffed by the barbarians of the defert, and almoft equally fo by Romanus its own governor. His conduct was fo exceedingly oppreffive, that the inhabitants fent a deputafion to Valentinian, comolaining of their unhappy fituation, and defiring redrefs. Palladius was accordingly fent to inquire into the flate of the province; but being gained over by Romanus, he made a falfe report to the emperor; and thus th. : :nhappy province was left a prey to the mercilefs invaders and rapacious governor. Dus ring the reft of this reign the barbarians continued their inroads into the empire; and among others, we find the Saxons now putting in for a fhare of the fpoils of the ruined empire: however, their army was at this time entirely cut off. At laft Valentinian himfelf took the field againit thefe northern barbarians; and entering the country of the Quadi, deftroyed all with fire and fword. The barbarians on this were fain to fue for peace in a very humble manner; but Valentinian, falling into a great pafion while fpeaking to them, threatened to extirpate the whole nation at once. His furv on this occafion produced an apoplexy, or fone other mortal diforder; for he fuddenly fell down, and being conveyed by his attendants into lis chamber, he was firized with violent convulfive fits and contortions of all his limbs, in the agonies of which he expived, in the year 375 , the $55^{\text {th }}$ of his age, and 12 th of his reign.

Afier the death of Valentirian, his fon Gratian tock upon him the imperial dignity: foun after becoming matter of the whole empire by the death of Valens. The tranfactions of his reigu, and thofe of his partner Theodofius, are related under the article ConstantiNopre, $\mathrm{N}^{\circ} 77-89$. The death of Theodofins gave the finifhing ftroke to the Roman affirs; his fon Honorius, to whbom he left the weftern empire, being fof
feffed of no abilities whatever, and indeed Scenis to have been but very titile removed from an idict. The barbarians appear to have been abundantly fenlible of the advantages offered thein t.y the death of Theodofius, He expired in the nimnth of January; and be fore the acceflion of fpritg, the Gothis were in arms. The tar-Invation barian auxiliaries alfo now deciared their inde ondency; ct the and along with their countrymen, furioully allailed the ciuth andeclining empire. Thic Goths were now headed by an ${ }^{\text {in }}$ dlanc. experienced commander, their celehrated king Alaric; who would have proved formidable evea in better times of the empire. He fitt overran Greece, which he accomplifhed without oppofition, through the treachery of the governor, who commanded the troops that defended the pafs at Thermopyla to retire at the approach of the ene:my. Athens, Corinth, Argos, Sparta, yielded without refifance; and the whole country was ravaged and deflroyed ty the blood-thirlly tarbarians. At laft, in the year 307, he was oppoled by Silicho, the geteral of Honorrus, a man of great valour and experience in war. The Goths were defeated with great lofs, and afterwards befieged in their camp; but through miftake or negligence in the Roman commander, they were fuffered to cicape, and make themfelves mafters of the province of Epirus. Alaric then, having found means to conclude a treaty with the minilters of Conftantirople, Stilicho was obliged to retire.

Not long after this, Alaric invaded Lialy ifelf. The emperor, flruck with terror, would have abandoned the country and fled into Gaul: but this difgraceful and pernicious me:fure was oppofed by S:ilicho; who propofed to the court of Honorius, at that time at Milan, that if they would maintain their ground during his ablence he would foon return with an army capable of oppofing the barbailins. This bcing agreed to, St licho immediately fet out for theetin, where the moft confiderable body of the Roman forces at that time was, and collected his troops with the wetnort diligence. But in the niean time Honorius was in the greatelt danger; having been obliged to take refuge in the town of Alla in Piedmont. To this place the Goths inftantly laid fiege, and a capitulation had been propofed, when the drooping fyirits of Honorius were at once revived by the arrival of Stulicho, whom he had fo long expected. The Gotlis were now befeged Gos. 44. in their turn, and obliged to come to a decifive battle eat at at Pollentia. The engagement latted the whole d.y; "ollent? but at laft the Goths were compelled to retreat. Their camp was inflantly inveRed; their entrenclinients forced with great Ølaughter; the wife of Alaric was taken, with all the wealth which had been amafied in plundering Grecee; while many thoufands of Rioman prifoners were releafed from the moft deplorable flavery, The victory, however, was not fo decifive but that A. laric continued fill estremely formidable; and Stilicho chofe rather to conclude a treaty with him, and allow him an armual penfion, than to continuc the war with vignur. Alaric, who was not very fcrupulous in his ohfervance of this treaty; in his retreat attempted to make himfelf mafter of the city of Vesona: bra: Stit: cho comi.g tp with him near that place, gave him a terrille defcat, in whici the lofs was litle lefs than it had been at Pollentia; after whicls be cffected a retreat out of Italy, but not without the greatef diflicully and danger.

H $\mathrm{H}_{2}$
Italy

## R O M [ 244 ] B O M

Ruma ! ing thus happily delivered, Ho:aoias enteroft Rome in triumph, baving Sulicho along with hin in the trimplal chariot. On his entry into the city, he abolifled the fhows of gladiators; which, though forbidden by Conftantine, had been tolerated by his fucceffors, and even by Theodofius himfelf, out of com-

446 Honorius retires to Ravenna. plaifance to the people, who were beyond meafure fons of that inhuman diverfion. However, foon after, the emperor was obliged to leave the metropolis and retire to Ravenna, in order to fecure himfelf from the barbarians, who now broke in upon the empire on all fides. Such multitudes now made their appearance, that it is not a little difficult to account for their fudden emigration. Mr Gibbon accounts for it from a fuppofed revolution in the north-eattern parts of China. "The Chinefe annals (fays he), as they have been interpreted by the learned induftry of the prefent age, may be ufefully applied to reveal the fecret and remote
caufes of the fall of the Roman empire. The extenfive territory to the north of the great wall was poffeffed, after the flight of the Huns, by the victorious Sienpi ; who were fometimes broken into independent tribes, and fometimes re-united under a fupreme chief; till at length ftyling themfelves Topa, or " mafters of the earth," they acquired a more folid confiftence, and a more formidable power. The Topa foon compelled the paftoral nations of the eaftern defert to acknorrledge the fuperiority of their arms; they invaded China in a period of weaknefs and inteftine difcord; and thefe fortunate Tartars, adopting the laws and manners of the vanquilhed people, founded an imperial dynafty, which reigned near 160 years over the northern provinces of the monarchy. Sume generations before they afcended the throne of China, one of the Topa princes had enlifed in his cavalry a flave of the name of Moko, renowned for his valour ; but who was tempted, by the fear of punithment, to defert his ftandard, and to range the defert at the head of 100 followers. This gang of robbers and outlaws fwelled into a camp, a tribe, a numerous people, dittinguifhed by the appellation of Gcougen; and their bereditary chieftains, the pofterity of Moko the flave, affumed their rank ::nong the Scythian monarchs. The youth Toulun, the greateft of his defcendants, was exercifed by thofe misfortunes which are the fchool of heroes. He bravely itruggled with adverfity, broke the imperious yoke of the Topa, and became the legiflator of his nation, and the conqueror of Tartary. His troops were diftributed into regular bands of 100 and of 1000 men; cowards were ftoned to death; the moft fplendid honours were propofed as the reward of valour; and Tuulun, who had knowledge enough to defpife the learning of China, adopted only fuch arts and inftitutions as were favourable to the military fpirit of his government. Flis teats, which he removed in the winter feafon to a mure fouthern latitude, were pitched dusing the fummer on the fruitful banks of the-Selinga. His comquelts Aretched from the Corea far beyond the river Irtifh. He vanquifhed, in the country to the north of the Cafpian fea, the nation of the IIons; and the new tille of Khan, on Cagan, expreffed the fame and power which he derived from this memorable victory.
"The chain of events is interrupted, or rather is concoaled, as it paffes from the Volga to the Vifula, thwough the dark interval which feparates the extreme
limits of the Chinefe and of the Roman geography. Rome. Yet the temper of the barbarians, and the experience of 'fucceffive emigrations, fuficiently declare, that the Iuns, who were oppreffed by the arms of the Geougen, foon withdrew from the prefence of an infulting victor. The countries towards the Euxine were already occupied by tlicir kindred tribes; and their hally flight, which they foon converted into a bold attack, would more naturilly be directed towards the rich and level. plains through which the Villula gently flows into the Baltic fea. The north mult again have been alarmed and agitated by the invafion of the Huns; and the nations who retreated before them muft have preffed with incumbent weight on the confines of Germany. The inhabitants of thole regions which the ancients have affigned to the Suevi, the Vandals, and the Burgundians, might embrace the refolution of abandoning to the fugitives of Sarmatia their woods and morafies; or at lealt of difcharging their fuperfluous numbers on the provinces of the Roman empire. About four years after the victorious Toulun had affumed the title of khan of the Geougen, another barbarian, the haughty Rbodogalt, or Radagaifus, marched from the northern extremities of Germany almoft to the gates of Rome, and left the remains of his army to atchieve the deftruction of the welt. The Vandals, the Suevi, and the Burgundians, formed the firength of this mighty hoft : but the Alani, who had found an hofpitable reception in their new feats, added their active cavalry to the heavy infantry of the Germans; and the Gothic adventurers crowded fo eagerly to the flandard of Radagaifus, that by fome hiftorians he has been flyled the king of the Goths. Twelve thoufand warriors, diftinguifhed above Radaraithe vulgar by their noble birth or their valiant deeds, ios invales glittered in the van; and the whole multitude, which Italy with was not lefs than 200,000 fighting men, might be in- a prodigicreafed by the acceffion of women, of children, and of ${ }^{\text {ous army. }}$ flaves, to the amount of 400,000 perfons. This formidable emigration iffued from the tine coaft of the Baltic which had poured forth the myriads of the Cimbri and Teutones to affault Rome and Italy in the vigour of the republic. After the departure of thofe barbarians, their native country, which was marked by the veftiges of their greainels, long ramparts, and gigantic molcs, remained during tome ages a vaft and dreary folitude; till the human fpecies was renewed by the powers of generation, and the vacancy was filled up by the influx of new inhabitants. The nations who now ufurp an extent of land which they are unable to cultivate, would foon be aflifted by the induftrious poverty of their neighbours, if the government of Europe did not protect the claims of dominion and property.
"The correfpondence of nations was in that age fo imperfect and precarious, that the revolutions of the north might efcape the knowledge of the court of Ravenna; till the dark cloud which was collected along, the coaft of the Paltic burat in thunder upon the banks of the Upper Danube. The emperor of the weft, if his minifters difturbed his amufements by the news of the impending danger, was fatisfied with being the occafion and the fpectator of the var. The fafety of lome was intrufted to the counfels and the fword of Stilicho; but fuch was the feeble and exhaufted fate. of the empire, that it was impoffible to seflore the for-
tifications,

## $\mathrm{R} O \mathrm{M}$ <br> [ 24.5 ] <br> R. O M

Reme.
tifications of the Danube, or to prevent, by a vigorous effort, the invafion of the Germans. The hopes of the vigilant minitter of Honorius were confined to the defence of Italy. He once more abandoned the provinces; recalled the troops; prefled the new levies, which were rigoroufly exacted, and pufillanimoufly eluded; employed the molt ethicacious means to arreft or allure the deferters; and offered the gift of freedom, and of two pieces of gold, to all the flaves who would enlift. By thefe efforts be painiully colleated from the fubjefts of a great empire an army of 30,000 or 40,000 men ; which, in the days of Scipio or Camillus, would have been inftantly furnihed by the free citizens of the territory of Rome. The 30 legions of Stilicho were reinforced by a large body of barbarian auxiliaries; the faithful Alani were perfonally attached to his fervice; and the troops of Huns and of Goths, who marched under the banners of their native princes Hulden and Sarus, were animated by intereft and refentment to oppofe the ambition of Radagaifus. The king of the confederate Germans paffed, without refiftance, the Alps, the Po, and the Appenine: leaving on one hand the inacceffible palace of Honorius, fecurely buried among the marfhes of Ravenna; and on the other, the camp of Stilicho, who had fixed his head quarters at Ticinum, or Pavia, but who feems to have avoided a decifive battle till he had affembled his diftant forces. Many cities of Italy were pillaged, or defroyed; and the fiege of Florence by Radagaifus is one of the earlieft events in the hiftory of that celebrated republic, whofe firmnefs checked and delayed the unfkilful fury of the barbarians. The fenate and people trembled at their approach within 180 miles of Rome; and anxioufly compared the danger which they had efcaped with the new perils to which they were expofed. Alaric was a Chriftian and a foldier, the leader of a difciplined army; who underftood the laws of war, who refpected the fanctity of treaties, and who had familiarly converfed with the fubjects of the empire in the fame camps and the fame churches. The favage Radagaifus was a ftranger to the manners, the religion, and even the language, of the civilized nations of the fouth. The fiercenefs of his temper was exafperated by cruel fuperftition; and it was univerfally believed, that he had bound himfelf by a folemn vow to reduce the city into a heap of fones and afhes, and to facrifice the moft illuftrious of the Roman fenators on the altars of thofe gods who were appeafed by human blood. The public danger, which fhould have reconciled all domeftic animoffies, difplayed the incurable maduefs of religious faction. The o preffed votaries of Jupiter and Mercury refpected, in the implacable enemy of Rome, the character of a devout pagan; loudiy declared, that they were more apprehenfive of the facrifices than of the arms of Radagaifus; and fecretly rejoiced in the calamities of their cointry, which condemned the failh of their Chriflian adverfarics.
"Florence was reduced to the laft extremity; and the fainting courage of the citizens was fupporied only by the authonity of St Ambrofe, who had communicated in a dream the promife of a fpeedy deliverance. On a fudden they bcheld from their walls the banners of Stilicho, who adyanced with his united force to the relief of the fithful city; and who foon marked that fatal
fpot for the grave of the barbarian hod. The apparent contradictions of thofe writers who varioully relate the defeat of Radagaifus, may be reconciled without offering much violence to their refpective teltimonies. Orofius and Augultin, who were intimately connected by friendlhip and religion, afcribe this miraculons victory to the providence of God rather than to the valour of man. They ftrictly exclude every idea of chance, or even of bloodihed; and pofitively aftiom, that the liomans, whofe camp was the fcene of plenty and idlenefs, enjoyed the diftrefs of the barbanians, flowly expiring on the flarp and barren ridge of the hills of Fefula, which rife above the city of Florence. Their extravagant affertion, that not a fingle foldier of the Chriftian army was killed, or even wounded, may be difmiffed with filent contempt ; but the reff of the narative of Auguftin and Orofius is confiltent with the ftate of the war and the character of Stilicho. Confcious that he commanded the laft army of the republic, his prudence would not expofe it in the open field to the headftrong fury of the Germans. The method of furrounding the enemy with itrong lines of circumvallation, which he had twice emplo!. d againit the Gothic king, was repeated on a larger lcale, and with more confiderable effect. The examples of Cæfar muft have been familiar to the moft illiterate of the Roman warriors; and the fortifications of Djrrhachium, which connected 24 caftles by a perpetual ditch and rampart of 15 miles, afforded the model of an intrenchment which might confine and flarve the moft numerous hoit of barbarians. The Roman troops had lefs degenerated from the induftry than from the valour of their anceftors; and if the fervile and laborious work offended the pride of the foldiers, Tufcany could fupply many thoufand peafants, who would labour, though perhaps they would not fight, for the falvation of their native country. The imprifoned multitude of horfes and men was gradually deftroyed by famine, rather than by the fword; but the Romans were expofed, during the progrefs of fuch an extenfive work, to the frequent attacks of an impatient enemy. The defpair of the hangry barbarians would precipitate them againt the fortifications of Stilicho ; the general might fometinses indulge the ardour of his brave auxiliaries, who eagerly prefled to affault the camp of the Germans; and thefe various incidents migbt produce the flarp and bloody contlicts which dignify the narrative of Zofimus, and the Chronicles of Profper and Marcellinus. A fealonable fupply of men and provifions lad been introduced into the walls of Florence; and the famihihed holt of Radagaifus was in its turn befieged. The proud monarch of fo many warlike nations, aficr the lofs of his bravelt wartiors, was reduced to confide either in the faich of a capitulation, or in the clemency of Stilicho. But the death of the royal captive, who was ignominioufly beheaded, difgraced the triemph of Rome and of Chritianity; and the fhort delay of his execution was fufficient to brand the conqueror with the guilt of cool and deliberate cruelity. The familhed Germans who efcaped the fury of the auxiliaries were fold as flaves, at the contemptible price of as many fingle pieces of gold: but the difference of food and climate fwept away great numbers of thofe unhappy ftrangers; and il was otferved, that the inl.uman purchafens, inilead of reaping the fruit of theirslaboun, were foon obliged to add to it the expence of interrit.g

## T O M $\left[\begin{array}{lll}2+6\end{array}\right] \quad$ Pi O M

Romes. them. Stilicho informed the emperor ard the fenate of his fuccefs; and deferved a lecond time the glerious title of Deliserer of lialy:
"The fame of the victo:y, and more efpecially of the miraicle, bas encouraged a vain perfuafion, that the whole army, or rather nation, of Germans, who raigrated from the fhores of the Baltic, miferably peritied under the walls of Florence. Such indeed was the fate of Radagaifus himfelf, of his brave and faithful companions, and of more than one-third of the various multitude of Sueres and Vandals, of Alani and Burgundians, who adhered to the ftandard of their general. The union of fuch an army might excite our furprife, but the caufes of feraration are obvious and forcible; they were the pride of birth, the infolence of valour, the jealoufy of command, the impatience of fubordination, and the obflinate conflict of opinions, of interefts, and of pal-
fions, among fo many kings and warriors, who were untaught to yield or to obey. After the defeat of Radagaifus, two parts of the German hof, which mult have exceeded the number of 100,000 men, ftill remained in arms between the Apennine and the Alps, or between the Alps and the Danube. It is uncertain whether they attempted to revenge the death of their general : but their irregular fury was foon diverted by the prudence and firmnefs of Stilicho, who oppofed their march, and facilitated their retreat; who confidered the fafety of Rome and Italy as the great obiect of his care, and who facrificed with too much indifference the twealth and tranquillity of the diftant provinces. The barbarians acquired, from the junction of fome Pannonian deferters, the knowledge of the country and of the roads; and the invafion of Gaul, which Alaric had defigned, was executed by the remains of the great army of Radagaifus.
"Yet if they expected to derive any affiftance from the tribes of Germany who inhabited the banks of the Rhine, their hopes were difappointed. The Alemanni preferved a fate of inactive neutrality; and the Franks ditlinguifhed their zeal and courage in the dcfence of the empire. In the rapid progrefs down the khine, which was the firt act of the adminiffration of Stilicho, he had aprlied himfelf with peculiar attention to fecure the alliance of the warlike Franks, and to remove the irreconcileable enemies of peace and of the republic. Mtarcomir, one of their kings, was publicly convicted before the tribural of the Roman maginraie of violating the faith of treatics. He was fentenced to a nild, but diftant exile, in the province of Tufcany; and this degradation of the regal dignity was fo far from exciting the refentment of his fubjects, that they pursified with deall the turbulent Sunno, who attempted to revenge his brother, and maintained a dutiful allegiance to the princes who weee eftablifhed on the throne by the choice of Stilicho. When the limits of Gaul and Germany were flaken by the northern (migration, the Franks bravely encountered the fingle force of the Vandals; who, regardlefs of the leffions of adverfity, had again feparated their troops from the flandard of their rasharian allics. They paid the penalty of their refthnefs; and 20,000 Vandals, with their king Godigifelus, were flain in the ficld of battle. The whole people mut have been extipated, if the fquadrons of the Alari, adran- cing to their relief, had not trampled down the infar try of the Fianks; who, after an honourable refifance,
were compelled to relinquifh the unequal contef. The victorious confederates purfued their march; and on

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 the lalt day of the year, in a feafon when the waters of the Rhine were molt probably frozen, they entered without oppofition the defencelefs provinces of Gaul. This memorable ramage of the Suevi, the Vindals, the Alani, and the Burgundians, who never afterwards retreated, may be confidered as the fall of the Roman empire in the countries beyond the Alps; and the barriers, which had fo long feparated the farage and the civilized nations of the earth, were from that fatal moment levelled with the ground."While the peace of Germany was fecured by the attachment of the Franks and the neutrality of tha Alemanni, the fubjects of Rome, uncorifious of their approaching calamities, enjoyed a ftate of quiet and profperity, which had feldom bleffed the fromiers of Gaul. Their flocks and herds were permitted to graze in the paftures of the barbarians; their huntfmen penetrated, without frar or danger, ir.to the darkelt receffes of the Hercynian wood. The batks of the Fitine were crowned, like thofe of the Tiber, with clegant houfes and well cullivated farms; and if a poet defcended the river, he might exprefs his doubt on which fide was fituated the territory of the Romans. This feene of peace and plenty was fuddenly changed into a defert, gaud by the and the profpect of the froking ruins could alone di-barbarianso ftinguin the folitude of nature from the defolation of man. The flourifling city of Mentz was furpriled and deitroyed; and many thoufand Cbrifians were inhumanly maffacred in the church. Worms perihed after a long and obllinate fiege: Strafburg, Spires, Rheims, Tournay, Aras, Amiens, experienced the cruel oppreffion of the German yoke; and the confuming ilames of war fpread from the banks of the Rhine over the greateft part of the 17 proxinces of Gaul. That rich and extenfive country, as far as the ocean, the Alps, and the Pyrenees, was delivered to the barbarians, who drove before them, in a promifcuous crowd, the bithop, the fenator, and the virgin, laden with the fpoils of their houfes and aitars."

In the midll of thefe calamities a revolt happencd in R Britain, where one Conflantine, a common foldier, was cintanrailed to the imperial thone merly for the fie of tine, whom railed to the imperial throne, merely for the lake of his Honorius
name. However, he feemis to have been a man of cknowconfiderable abilities, and by no means unft for the high ${ }^{\text {ledges } 2 s}$ dignity to which he was raifed. He governed Britain hin the enter with great profperity ; paffed over into Gaul and Spain ipire. the inhabitants of which fubmitted without oppofition, being glad of any protector whatever from the barbarians. Honorius, incapable of defending the empire, or repreffing the revolt, was obliged to acknowledge him for his partner in the empire. In the moan time, Alaric, with his Gotbs, threatened a new invafion un:lefs he was paid a certain fum of morey. Stilicho is faid to have occafioned this demand, and to have intified upon fending him the money he demanded ; and this was the caule of his difgrace and deail, which happened foon after, with the extirpation of his Camily and friends. Nay, fuch was the general hatsed of this un-Stilicho difo fortunate manifter, that the foldiers quartered in the ci-graced and ties of Italy no fooner heard of his death, than they put to mu dered the wives and children of the barbarians whom Stilicho had taken into the fervice of Honorius. The criagod bubands went orcr to Alaric, who made a

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Rome. new demand of money; which not being readily feit, he land ficge to Rome, and would have tiken it, had not the emperor complied with his demand. The ranfom of the city was 5000 pounds of yoid, 30,200 of filver, 4000 filk garments, 3000 fisins dyed pucple, and 3000 pounds of pepper. On this occalion the heathen temples were ftripped of their remaining ornaments, and amony others of the ftatue of Valour; which the pagans did not fail to interpret as a prefige of the fecedy ruin of the fate.

Alaric having received this treafure, departed for a fhort time : but foon after he again blocked up the city with a numerous army; and again an accommutation with Honorius was fel on foot. However, for fome reafons which do not clearly appear, the treaty was bro-

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Rome ta-
fen and phondered by daric. ken on, Nome Nas a thid tine befred, and at lan taken and plundered. Alaric, when upon the point of breaking into the city, addreffing his foldiers, told them, that all the wealth in it was theirs, and therefore he gave them full liberty to feize it ; but at the fame time he frictly enjoined them to thed the blood of none but fuch as they fhould find in arms; and above all, to fpare thofe who fhould take fanctuary in the holy places, efpecially in the churches of the apoofties St Peter and S: Paul ; which he named, becaufe they were mof fpacious, and confequently capable of affording an alylum to great numbers of people, Having given thefe orders, he abandoned the city to his Goths, who treated it no better, according to St Jerome, than the Greeks are faid to have treated ancient Troy; for after having plundered it for the face of three, or, as others will have it, of fix days, they fet fire to it in feveral places; fo that the ftately palace of Salluft, and many other magnificent buildings, were reduced to afhes ; nay, Proconius writes, that there was not in the whole city one houfe left entire ; and both St Jerome and Philoftorgius affert, that the great metropolis of the empire was reduced to an heap of afhes and ruins. Though many of the Goths, purfuant to the orders of their general, refrained frem thedjing the blood of fuch as made no reffifance; yet others, more cruel and blood-thirfy, maffacred a!l they met : fo that the freets in fome quarters of the city viere feen covered with dead bodies, and fwimming in blood. However, not the leaft injury was offered to thofe who fled to the churches; nay, the Goths themfelves conveyed thither, as to places of fafety, fuch as they were defirous fhould be fpared. Many of the ftatues of the gods that had been left entire by the emperors as excellent pieces of art, were on this occafion deftroved, either by the Goths, who, though moftly Arians, were zealous Chriftians, or by a dreadful ftorm of thunder and lightning which fell at the fame time upon the city, as if it had been fent on purpofe to complete with them the deftruction of idolatry, and abolih the fmall remains of pagan fuperftition. Notwithftanding thefe accounts, fome affrm that the city filffered very little at this time, and even not fo much
continued the the watis of Honorius, wincin happent Eurme. in the year 423 , after an enforthate reign of 28 years.

After fome ufurpations which tuok piace on the death of Honorius, his nephew Valentinian 111. was declated emperor of the welt, and his muther Placidia regent during his minotity. He was fcarce feated on the thone, when the empire was attacked by the Hums under the celebrated Aitila. The Romans, however, wretched and degenerate as they were, had they boen unanimous, would even yet have been luperior to their enemies. The emprefs then bidd two celebrated generals, Bonifacius and Aetius; who by their union might have faved the empire : but unhappily, through the treachery of Actius, Bonifacius was obliged to revolt ; and a civil war enfued, in which he loft his life. Aetius, however, notwithlfanding his trcachery, was pardoned, and put at the head of the forces of the empire. He defended it againf Attila with great Spirit and fuccefs, notwithfanding the deplorable fitcation of affairs, till he was murdered by Valentinian with his own hand, on a fufpicion that he afpired to the empire. But in the mean time the provinces, except Italy iffelf, were totally overrun by the barbarians. Genlenic king of the Vandals ravaged Africa and Sicily ; the Goths, Suevians, Burgundians, \&c. had taken poffeffion of Gaul and Spain ; and the Britons were opprefled by the Scots and Piets, to that they were obliged to call in the Saxons to their affiftance, as is related under the article England. In the year 455, Valentinian was murdered by one Maximus, whofe wife he had ravifhed. Maximus immediately affumed the empire ; but felt fuch violent anxieties, that he defigned to refign it and tly out of Italy, in order to enjoy the quiet of a private life. However, being diffuaded from this by his friends, and his own wife dying foon after, he forced the emprefs Eudoxia to marry him. Eudoxia, who had tenderly loved Valentinian, provoked beyond meafire at being married to his murderer, invited Genferic king of the Vandals into I:aly. This proved a molt fatal fcheme: for Genferic immediately appeared before Home; a violent tumult enfued, in which Maximus R mict. loft his life; and the city was taken and plundered by krn and Genferic, who carried off what had been left by the : w dised Goths. A veffel was loaded with coltly ftatues; half t.y Centhe covering of the capitol, which was of brafs plated ${ }^{\text {terac, }}$ over with gold; facred veffels enriched with precious ftones; and thole which had been taken by 'Titus out of the temple of Jerufalem; all of which were loft with the veffel in its paffage to Africa.

Nothing could now be more deplorable than the fate of the Roman affairs : neverthelefs, the empire continued to exilt for fome years longer ; and even feemed to revive for a little under Marjorianus, who was declared emperor in 458 . He was a man of great courage, and poffefled of many other excellent rqualities. He defeated the Vandals, and drove them out of Italy. With great labour he fitted out a fleet, of which the Romans had been long deflitute. With this he dedigned to pals over into Africa; but, it being furg riled and burnt by the enemy, be himfelf was foon after murdered ly one Ricimer a Goth, who had long governed 459 every thing with an abfolute fway. After the death and ty of MIarjurianus, one Anthemius was raifd to the em-Kucumer. pire: but begining to counterad Ricimer, the latter

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Rome. openly revaltes, befieged and took Rome; where he committed innumerable cruelties, among the relt putting to death the unhapyy empcror Anthemius, and raifing one Olybius to the empire. The tranfactions of his reign were very tew, as he died foon after his acceffion. On his death, one Glycerius ufiurped the empire. He was depofed in 474, and one Julius Nepos had the name of emperor. He was driven out the next year by his general Oreftes, who caufed his fon Auguftus or Auguftulus to be proclaimed emperor. But the following year, 476 , the barbarians who ferved in the Roman armies, and were diitinguifhed with the title of allies, dennanded, as a reward for their fervices, the third part of the lands in Italy; pretending, that the whole country, which they had fo ofien defended, belonged of right to them. As Oreftes refufed to comply with this infolent demand, they refolved to do themfelves juftice, as they called it; and openly revolting, chofe one Odoacer for their leader. Odoacer was, according to Ennodius, meanly born, and only a private man in the guards of the emperor Auguftulus, when the barbarians revolting, chofe him for their leader. He is faid to have been a man of uncommon parts, equally capable of commanding an army and governing a ftate. Having left his own country when he was yet very young, to ferve in ltaly, as he was of a fature remarkably tall, he was admitted among the emperor's guards, and continued in that fation till the prefent year; when, putting himfelf at the head of the barbarians in the Roman pay, who, though of different nations, had, with one confent, chofen him for their leader, he marched againft Oreftes and his fon AuguAulus, who ftill refufed to give them any fhare of the lands in Italy.

As the Roman troops were inferior, both in number and valour, to the barbarians, Oreftes took refuge in Pavia, at that time one of the belt fortified cities in Italy : but Odoacer, invefting the place without lofs of time, took it foon after by affault, gave it up to be plundered by the foldiers, and then fet fire to it ; which reduced moit of the houles, and two churches, to afhes. Oreftes was taken prifoner, and brought to Odoacer, who carried him to Placentia, and there caufed him to be put to death, on the 28th of Auguft, the day on which he had driven Nepos out of Ravenna, and obliged him to abandon the empire. From Placentia, Odoacer marched ftraight to Ravenna, where he found Paul, the brother of Oreftes, and the young emperor Augufiulus. The former he immediately put to death; but fparing Auguftulus, in confideration of his youth, he flripped him of the enfigns of the imperial dignity, and confined him to Lucullanum, a caftle in Campania ; where he was, by Odoacer's orders, treated with great humanity, and allowed an handfome maintenance to fupport himfelt and his relations. Rome readily fubmitted to the conqueror, who immediately caufed himfelf to be proclaimed king of Italy, but would not affume the purple, or any other mark of the imperial dignity. Thus failed the very name of an empire in the Wefl. Britain had been long fince abandoncd by the Romans; Spain was held by the Goths and Suevans ; Airica, by the Vandals; the Burgundians, Goths, Franks, and Alans, had erected feveral tetrarchies in Gaul; at length ltaly itfelf, with its proud metropolis, which for to many ages had given law to
the reft of the woild, was enflaved by a conlemptiole barbarian, whole family, counitry, and nation, are not well known to this day.

From this time, Rome has ceafed to be the capital of an empire; the tentitories of the pope, to whom the city is now fubject, being inconfiderable. The origin of the pope's temporal power, and the revolutions of Italy, are related under the article Italx; and a Iketch of the finitual ufurpations of the popes may be feen under the articles History, fect. ii. and ReformaTION ; and likewife under the various hiftorical articics as they occur in the courfe of this wo:k.

It is thought that the walls of modern Rome take in nearly the fame extent of ground as the ancient ; but of modern in nearly the fame extent of ground as the ancient; but Rome. fpot is very great, one half of modern home lying wafte, or occupied nith gardens, felds, meadows, and vineyards. One may walk quite round the city in three or four hours at molt, the circumference being reckoned about 13 Italian miles. With xegard to the number of the inhabitants, modern Rome is alfo greatly inferior to the ancient: for, in 1709, the whole of thefe amounted only to 138,568 ; among which were 40 bifhops, 2686 priefts, 3559 monks, 1814 nuns, 393 courtefans, about 8000 or 9000 Jews, and 14 Moors. ln 1514, the number was increafed to 143,000 . In external fplendour, and the beauty of its teml les and palaces, modern Rome is thought by the moll judicious travellers to excel the ancient. There was nothing in ancient Rome to be compared with St Peten's church in the modern city. That Rome was able to recover itfelf after fo many calamities and devaftations, will not be matter of furprife, if we confider the prodigious fums that it has fo long annually drawn from all countries of the Popifh perfuafion. Thefe fums, though ftill confiderable, have been continually decreafing fince the Reformation. The furface of the ground on which Rome was originally founded is furprifirgly altered. At prefent it is difficult to diftinguifh the feven hills on which it was firf built, the low grounds being almoff filled up with the ruins of the ancient fireets and houfes, and the great quantities of earth wafhed down from the hills by the tiolence of the rains. Anciently the fuburbs extended a vaft way on all fides, and made the city appear almoft boundlefs; but it is quite otherwife now, the country about Rome being almoft a defert. To this and other caufes it is owing, that the air is not very wholefome, efpecially during the fummer heats, when few go abroad in the day-time. No city at prefent in the world furpafies, or indecd cquals, Rome, for the multiplicity of fine fountains, noble edifices, antiquities, curiofliies, paintings, flatucs, and fculptures. The city flands on the Tiber, 10 miles from the Tufcan fea, 380 from Vienna, 560 from Paris, 740 from Amilerdam, 810 from London, and 900 from Madrid. The Tiber is fubject to frequent inundations, by which it often dees great damage. A fmall part of the city is fepatatcd from the other by the river, and is therefore called Traveflere, or beyond the Tiber. There are feveral bridges over the river, a great number of towers on the walls, and 20 gates. The remains of Rome's ancient grandur confill of flatues, colcffufes, temples, palaces, theaties, naumachias, triumphal arches, $c$ rcufes, columns, obelifis, fountains, aqueducis, maufoleunis, ther-

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## Rome.

 mee or hot-baths, and other ftructures. Of modern buildinge, the fplendid churches and palaces are the moft remarkable. Mr Addifon fays, it is almof impoffible for a man to form in his imagimation fuch beantiful and glorious feenes as are to be met with in feveral of the Roman churches and chapels. This gentleman tells us alfo, that no part of the antipuities of Rome pleafed him fo much as the ancient flatues, of which there is ftill ant incredible variety. Next to the flatues, he fays, there is nothing more furprifing than the amazing variety of ancient pillars of fo many kinds of marble. Rume is faid to be well paved; but not well lighted, nor kept very clean. Two thirds of the houles are the property of the churches, convents, and alms houfes. Proteflants are not obliged to kneel at the elevation of the hoft, or at meeting the eucharif in the flreets; and they may have fleft-meat always at the inns, even during Lent. Here are many academies for promoting arts and fciences, befides the univerfity. The carnival here is only during the eight days before Lent, and there are no fuch feenes of riot as at Venice: proftitutes, however, are publicly tolcrated. To maintain good order, there is a body of 300 Sbirri, or Halberdeers, under their barigella, or colonel. There is little or no trade carried on in Rome, but a vaft deal of money is fpent by travellers and other flrangers. The principal modern flructures are the church of St Peter, and the other churches; the aqueducts and fountains; the Vatican, and the other palaces; the Campidolio, where the Roman fenate refides, \&c. The principal remains of antiquity are the pila miliaria of fine marble; the equeftrian brafs flatue of Marcus Aurelius Antoninus ; the marble montrment of the emperor Alexander Severus; marble bufts of the emperors and their conforts; three brick arches of the temple of Peace, built by the emperor Vefpafian ; the triumphal arch of Septimus Severus and of Gallienus ; the circus of Antoninus Caracalla ; fome parts of the cloaca maxima; the columna Antonina, reprefenting the principal actions of Marcus Aurelius ; the columna Trajani, or Trajan's pillar ; fome fragments of the curia, or palace of Antoninus Pius, and of Nerva's forum; the maufoleum of Augutus, in the Strada Pontifici; the remains of the emperor Severus's tomb without St John's gate ; the pyramid of Caius Ceflius near St Paul's gate; the porphyry coffin of St Helen, and the original fatue of Coriftantine the Great, in the church of St John of Lateran : a font of oriental granite, in the chapel of St Giovanni in fonte, faid to have been erected by Conftantine the Great ; an Egyptian obelifk near the church of St Maria Maggiore ; the flately remains of Dioclefian's baths; the celebrated Pantheon ; the obelifks of Sefoftris and Auguftus by the Clementine college ; the church of St Paul fuori della Mura, faid to have been boilt by Conftantine the Great; the Farnefe Hercules, in white marble, of a coloflal fize and exquifite workmanflip, in a court of the Farnefe palace, and an admirable group cot out of one block of marble, in another court of the farne palace. Befides thefe there are a great many more, which our bounds will not allow us to take any further notice of. Here is a great number of rich and well-regulated hofpitals. Near the cburch of St Sebaftiano alle Catacombe, are the moft fpacious of the catacombs, where the Chri-VoL. XVIII. Part I.
flians, who never burned their dead, and fuch of the Pagan Romans as could not afford the expence of burming, were buried. Along the Via Appia, without Si Sebaltian's gate, were the tombs of the prineipal families of Rome, which at prefent are ufed for cellars and fore-houfes by the gardeners and vinedrefiers.

Rome was entered, in February 1798 , by the French, and in confequence of a turnult which enfued, when their general Duphot was killed, they depofed tie pope, abolilied the papal government, and erected in its ffead a re;ublic, to which they gave the defignation of the Roman reprblic. They fent the pope himeif to Fiance, where he died on his various removals; they likewife fent away great numbers of the moft valuable itatues and paintings of antiquity, and conspelled the inhabitants to pay heavy contributions. In the month of September 1799, the allies retook this city, and the netv French government was overthrown. It was afterwards obliged to yield to the infatiaoble ambition of Bonaparte, as well as the whole of Italy, which now forms a confttuent part of his unvieldy dominions. See France and Italy.

ROMNEY, a town of Kent in England. It is one of the cinque-port towns, and is feated on a marfh of the fame name, famous for feeding cattle; but the air is very unhealthy. It was once a large and populous place, but the retiring of the fea has reduced it very much; it fends two members to parliament.

ROMORENTIN, is a finall town fituated on the river Saudre, in the territory of Blafois in France, famous for its woollen menufacture. It is faid to be a very ancient place; and the inhabitants pretend that Cafar built a tower here, of which there are fill fome confiderable remains. They bave a manufacture of ferge and cloth, which is ufed for the clothing of the troops.

ROMPEE, or Rompu, in Heraldry, is applied to ordinaries that are reprefented as broken; and to chevrons, bends, or the like, whofe upper points are cut off.

ROMULUS, the founder and firf king of Rome. See Rome, No 14.

RONCIGLIONE, is a town of Italy, in the Ecclefiaftic State, and Patrimony of St Peter, in E. Long. 13. N. Lat. 42. 12. It is a fmall place, but had a pretty good trade, and was one of the richelt in the province, while it belonged to the dakes of Parma, which was till 1649 , when Pope Innocent X. became mafter of it, and it has ever fince continued in the poffeffion of his fueceffors.

RONDELETIA, a genus of plants belonging to the pentandria clafs, and in the natural method ranking with thofe of which the order is doubiful. See Botany Index.

RONA, one of the Hebrides iflands, is reckoned about 20 leagues diftant from the north-eaft point of Nefs in Levis-and is about a mile long, and half a mile broad. It has a hill in the weft part, and is only vifible from Lewis in a fair fummer's day. There is a chapel in the ifland dedicated to St Ronan, fenced with a fone wall round it. This church the natives take care to keep very neat and clean, and fweep it every day. There is an altar in it, in which there lies a big plank of wood about no feet long. Every foot has a

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Roprasd. bole in it, and in every bole is a ftone, to which the natives afciibe fereral virtues; one of them is fingular (as they fay) for promoting fpeedy delivery to a woman in travel. The inhabitants are extremely ignorant, and very fupertitious. See Martin's Defcription.

RONS 1 RD, Peter de, a French poet, wasborn at the caltle of Poifioniere in Vendomois in 1524 . He was defcended of a noble family, and was educated at Paris in the college of Navarre. Academical purfuits not fuiting his genius, he left college, and became page to the duke of Orleans, who refigued him to James Stuart, king of Scots, married to Magdalene of France. Ronfard continued in Scotland with King James upwards of two years, and afterwards went to France, where he was employed by the duke of Orleans in feveral negociatious. He accompanied Lazarus de Baif to the diet of Spires. Having from the converfation of this learned man imbibed a paffion for the belles-lettres, be fudied the Greek language with Baif's fon under Dorat. It is reported of Ronfard, that his practice was to ftudy till two o'clock in the morning; and when he went to bed, to awaken Baif, who refumed his place. The mufes poflefled in his eyes an infinity of charms; and he cultivated them with fuch fuccefs, that he acquired the appellation of the Prince of the Poeis of his time. Henry II. Francis II. Charles IX. and Henry III. loaded him with favours. Having gained the firft prize of the Jeux Floraux, they thought the reward promifed below the merit of the work, and the reputation of the poet. The city of Toulouie caufed a Minerva of mafly filver of confiderable value to be made and fent to him. This prefent was accompanied with a decree, declaring him The French Poet, by way of diftinction. Ronfard afterwards made a prefent of his Minerva to Henry II. and this monarch appeared as much elated with this mark of the poet's eiteem for him, as the poet himfelf could have been had he received the prefent from his fovereign. Mary, the beautiful and unfortunate queen of Scots, who was equally fenfible of his merit with the Toulonefe, gave him a very rich fet of table-plate, among which was a veffel in the form of a rofe-bufh, reprefenting Mount Parnaffus, on the top of which was a Pegafus with this infeription:

## A Ronfard, l'Apollon de la fource des mufes.

From the above two anecdotes of him may eafily be inferred the reputation in which he was held, and which ke continued to keep till Malherbe appeared. His works poffefs both invention and genius; but his affectation of everywhere thrufting in his learning, and of forming words from the Greek, the Latin, and the different provincialifms of France, has rendered his verffieation difagreeable and often unintelligible.

> Ronfard, dit Defpréaux, par une autre mélhode, Reglant tout, brouilla tout, fit un art à fa mode; Fit toutcfois long temps ent un heurcux defin; Mais fa mufe, en Francois parlant Girec ei Latin, Vit dans l'âke fuivant, par un retour grotefque, Tomber de fes grands mots le fafe pédantefrue.

He wrote hymens, odes, a poem called the Frarciad, eclogues, efigrams, fonnets, \&:c. In his odes he takes berabaft for poetical raptures. He wiffes to imitate Pindar: and by labouring $t 00 \mathrm{~m}$ ch for lufty expreffiuns, be lofer Limelfin, choud of words. Ife is ob-
fcure and harfh to the laft degree: faults which he Ronfard. might eafily have avoided by ftudying the works of Marot, who had before he wrote brought French poetry very near to perfection. "Marot's turn and ityle of compolition are fuch (fays Bruyere), that he feems to have written after Ronfard: there is hardly any difference, except in a few words, between Marot and us, Ronfard, and the authors his contemporaries, did more diffrvice than good to ftyle : they checked its courfe in the adyances it was making towards perfection, and had like to have prevented its ever attaining it. It is furprifing that Marot, whofe works are fo natural and eafy, did not make Ronfard, who was fired with the itrong enthufiafm of poetry, a greater poet than either Ronlard or Marot." Eut what could be expected from a man who had fo little tafte, that he called Marot's works' a dungbill, from which rich grains of gold by induftrious working might be drawn?" As a fecimen of our author's intolerable and ridiculous affectation of learning, which we bave already cenfured, Boileau cites the following verfe of Ronfard to his miftrefs: Effesvous pas ma feule entelechie? ' are not you my only entelechia?' Now entelchia is a word peculiar to the peripatetic philofophy, the fenfe of which does not appear to have ever been fixed. Hermolaus Barbarus is faid to have had recourfe to the devil, in order to know the meaning of this new term ufed by Ariftotle; but he did not gain the information be wanted, the devil, probably to cunceal his ignorance, fpeaking in a faint and whifpering fort of voice. What could Ronfard's miftrefs therefore, or even Ronfard himfelf, know of it ; and, what can excufe in a man of real genius the low affectation of ufing a learned term, becaufe in truth nobody could underitand it. He has, however, fome pieces not deftitute of real merit; and there are perhaps fe:v effufions of the French mufe more truly poetical than his Four Seafons of the Year, where a moft fertile imagination difplays all its riches.

Ronfard, though it is doubtful whether he ever was in orders, held feveral benefices in commendam; and he died at Saint-Cofme-les-Tours, one of thefe, December $27.15^{8} 5$, being then 61 years of age. He appeared more ridiculous as a man tban as a poet: he was particularly vain. He talked of nothing but his family and his alliances with crowned heads. In his panegyrics, which he addrefles to himfelf without any ceremony, he has the vanity to pretend, that from Ronfard is derived the word Rofignol, to denote both a mufician and a poet together. He was born the year after the defeat of Francis I. before Pavia: "Juft as heaven (faid he) withed to indemnify France for the loffes it had fuftained at that place." He blufhed not to tell of his in. trigues. All the ladies fought after him; but he never faid that any of them gave him a denial of their favoure. His immoderate indulgence in pleafure, joined to his literary labours, ferved to haften his old age. In his 50 th year he was weak and valetudinary, and fubject to attacks of the gout. He retained his wit, his vivacity, and his readiuefs at poctic compofition, to his lan momerts. Like all thofe who afpire after public efteew, he had a great number of admirers and fome enemies. Though MIelin de Saint-Gelais railed at him continuc? ly, Rabelais was the perfon whom he moft dreaded. He tock always care to inform himfelf whore that jowizl sector of Meudon went, that he might not be foundi?

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* See Pe-
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Defaticn. the fame place with him. It is reported that Voltaire acted a fimilar part with regard to Peron *, of whofe extemporary fallies and bon mots he was much afraid. Konfard's poems appeared in 1567 at Paris in 6 vols 4 to, and in $160_{+}$in 10 vols 12 mo .

ROOD, a quantity of land equal to 40 fquare perches, or the fourth part of an acre.

ROOF, exprefles the covering of a houfe or building, by which its inhabitants or contents are protected from the injuries of the weather. It is perhaps the effential part of a houfe, and is frequently ufed to exprefs the whole. To come under a perfor's roof, is to enjoy his protection and fociety, to dwell with him. Tectum was ufed in the fame fenfe by the Romans. 「o be within our walls rather exprefles the being in our poffelfion : a roof therefore is not only an effential part of a houfe, but it even feems to be its characteriftic feature. The

Strictures on various kinds of roofs. Greeks, who have perhaps excelled all nations in tafte, and who have given the moft perfect model of architectonic ordonnance within a certain limit, never erected a building which did not exhibit this part in the diftincteft manner; and though they borrowed much of their model from the orientals, as will be evident to any who compares their architecture with the ruins of Perfepolis, and of the tombs in the mountains of Schiras, they added that form of roof which their own climate taught them was neceffary for fheltering them from the rains. The roofs in Perfia and Arabia are flat, but thofe of Greece are without exception floping. It feems therefore a grofs violation of the true principles of tafte in arehitecture (at leaft in the regions of Europe), to take away or to hide the roof of a houfe; and it muft be afcribed to that rage for novelly which is fo powerful in the minds of the rich. Our snceftors feemed to be of a very different opinion, and turned their attention to the ornamenting of their roofs as much as any other part of a building. They fhowed them in the moft confpicuous manner, running them up to a great height, broke them into a thoufand fanciful hapes, and fluck them full of high!y dreffed windows. We laugh at this, and call it Gothic and clumfy; and our great architects, not to offend any more in this way, conceal the roof altogether by parapets, baluftrades, and other contrivances. Our forefathers certainly did offend againft the maxims of true tafte, when they enriched a part of a boufe with marks of elegant habitation, which every fpectator mult know to be a cumberfome garret : but their fucceffors no lefs offend, who take off the cover of the houfe altogether, and make it impoffible to know whether it is not a mere fkreen or colonnade we are looking at.

We cannot help thinking that Sit Chrizopher Wren erred when he fo induftrioufly concealed the roof of St Paul's church in London. The whole of the upper order is a mere fereen. Such a quantity of wall would have been intolerably offenive, had he not given it fome appearance of habitation by the mock windows or niches. Even in this ftate it is gloomy, and it is odd, and is a puzzle to every fpectator- There fhould be no puzzle in the defign of a building any more than in a difcourfe. It has been faid that the double roof of our great chumches which have aifles is an incongruity, looking like a houfe ftanding on the top of another houfe. But there is not the leaft occafion for fuch a thought. We know that the aille is a fhed, a cloiter. Suppofe only that the lower roof or Shed is hidden by
a baluftrade, it then becomes a portico, againf which the connoiffeur has no objection: yet there is no difference; for the portico muft have a cover, otherwife it is neither a fted, cloifter, nor portico, any more than a building without a roof is a houfe. A houfc without a vifible roof is like a man abroad without his hat; and we may add, that the whim of concealing the chimneys, now fo faftionable, changes a houfe to a barn or ftorehoufe. A houfe fhould not be a copy of any thing. It has a title to be an original ; and a fcreen-like houfe and a pillar-like candleftick are fimilar folccifms in tafte.

The architect is anxious to prefent a fire object, and Litr!e at a very fimple outline difcuffes all his concerns with the terition soof. He leaves it to the carpenter, whom he frequent. paid by ly puzzles (by his arrangements) with coverings almoft to this part impoffible to execute. Indeed it is feldom that the idea of a buid of a roof is admitted by him into his great compofitions; ing. or if he does introduce it, it is from mere affeetation, and we may fay pedantry. A pediment is frequently ftuck up in the middle of a grand front, in a fituation where a roof cannot perform its office; for the rain that is fuppofed to flow down its fides muft be received on the top of the level buildings which flank it. This is a manifeft incongruity. The tops of dreffed windowe, trifling porches, and fometimes a projecting portico, are the only fituations in which we fee the figure of a root correfpond with its office. Having thus loft fight oi the principle, it is not furprifing that the draughifmen (for he fhould not be called architect) runs into every whim: and we fee pediment within pediment, a roumd pediment, a hollow pediment, and the greate h of all abfurdities, a broken fediment. Nothing could eve: rcconcile us to the fight of a man with a hat rithout its crown, becaufe we cannot orerlook the vie of a hat.

But when one builds a houfe, omament alone will Adwantag' not do. We mull have a cover ; and the enormots c - of d h . . 1 . pence and other great inco: veniences mhich attend the pitched concealment of this cover by parapeis, baluftrades, and toof. fereens, have obliged architests io confider the pent roof as admifible, and to regulate its form. Any man of fenfe, not under the influence of prcjudice, would be determined in this by its fitnels for anfivering its purpofe. A his't-pitched roof will undoubtedly floot off the rains and fnows better than one of a lower pitch. The wind will not fo eafly blow the drepping rain in between the flates, nor will it have fo much power to firip them off. $\Lambda$ high-pitched roof will cxert a fmaller thruft on the walls, both becaufe its ftrain is lei's horizontal, and becaufe it will admit of lighter covering. But it is more expenfive, becaufe there is more of it. It requires a greater fize of timbers to make it equally frong, and it expofes a greater furface to the wind.

There have been great changes in the pitch of roofs ; Remarks our forefathers made them very bigh, and we make them on the very low. It does not, however, appear, that. this thanges in change has been altogether the effect of principle. In the pitch of the fimple unadorned habitations of private perfons, eve- rooks. ry thing comes to be adjufted by an experience of inconveniences which have refulted from too low pitched roofs; and their pilch will always be nearly fuch as faits the climate and covering. Our architeats, however, go to work on diffrent pitinciples. Their pro-

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Roof. feffed aim is to make a beautiful object. The fources of the pleafores arifing from what we call taffe are fo various, fo complicated, and even fo whimfical, that it is almolt in vain to look for principle in the rules adopted by our profeffed architects. We cannot help thinking, that mach of their practice refults from a pedantic veneration for the bezutiful productions of Grecian architecture. Such architects as have written on the principles of the art in refpect of proportions, or what they call the ORDONNANCE, are very much puzzled to
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Gitek architecture ol thera. make a chain of reafoning; and the molt that they have made of the Greek architecture is, that it exhibits a nice adjuftment of Arength and ftrain. But when we confider the extent of this adjuftment, we find that it is wonderfully limited. The whole of it confits of a bafement, a column, and an entablature; and the entablature, it is true, exhibits fomething of a connection with the framework and roof of a wooden building; and we believe that it really originated from this in the hands of the orientals, from whom the Greeks certainly borrowed their forms and their combinations. We could eafily fhow in the ruins of Perfepolis, and among the tombs in the mountains (which were long prior to the Greck architecture), the fluted column, the bafe, the Ionic and Corinthian capital, and the Doric arrangement of lintels, beams, and rafters, all derived from unqueftionable principle. The only addition made by the Greeks was the pent roof; and the changes made by them in the fubordinate forms of things are fuch as we fhould expect from their exquifite judgement of beanty.

But the whole of this is very limited; and the Greeks, after making the roof a chief feature of a houfe, went no farther, and contented themfelves with giving it a flope fuited to their climate. This we have followed, becaufe in the milder parts of Europe we have no cogent reafon for deviating from it; and if any architect fhould deviate greatly in a building where the outline is exhibited as beautiful, we fhould be difgufted; but the difguft, though felt by almoft every fpectator, has its origin in nothing but habit. In the profeffed architect or man of education, the difguft arifes from pedantry : for there is not fuch a clofe connection between the form and ufes of a roof as flall give precife determinations; and the mere form is a matter of indifference.

We fhould not therefore reprobate the high-pitched roofs of our anceltors, particularly on the continent. It is there where we fee them in all the extremity of the faflion, and the tafte is by no means exploded as it is with us. A baronial caftle in Germany and France is feldom rebuilt in the pure Greek flyle, or even like the modern houfes in Britain; the high-pitched roofs are retained. We flould not call them Gothic, and ugly becaufe Gothic, till we fhow their principle to be falfe or taftelefs. Now we apprehend that it will be found quite the reverfe; and that though we cannut bring ourfelves to think them beautiful, we ought to think them fo. The conftruction of the Greck architecture is a transference of the practices that are neceffary in a wooden building to a building of ftone. To this the Greeks have adhered, in fpite of innumerable difficulties. Their marble quarries, however, put it in their power to retain the proportions which habit had rendered agreeable. But it is next to impoffible to adhere to thefe proportions with freeftone or brick, when the or-
der is of magnificent dimenfions, Sir Chriftopher Wres. faw this; for his mechanical knowledge was equal to his tatte. He compofed the front of Si Paul's church in London of two orders, and he coupled his columns ; and ftill the lintels which form the architrave are of luch length that they could carry no additional weight, and he was obliged to truls them behind. Had he made but one order, the architrave could not have carried its own weight. It is impofible to execute a Doric entablature of this fize in brick. It is attempted in a very noble front, the Academy of Arts in St Peterbugh. But the architcet was obliged to make the mutules and other projecting members of the corniche of granite, and many of them broke down by their own weight.

Here is furely an error in principle. Since fone is and the efthe chief material of our buildings, ought not the mem- fect of our bers of ornamented architecture to be refinements on ufing ftone. the cffential and unaffected parts of a fimple ftonebuilding. Theze is almoft as much propriety in the architecture of 1ndia, where a dome is made in imitation of a lily or other flower inverted, as in the Greek imitation of a wooden building. The principles of mafonry, and not of carpentry, fhould be feen in our architecture, if we would have it according to the rules of jult talte. Now we affirm that this is the characteriftic feature of what is called the Gothic architecture. In this no dependence is had on the tranfverfe ftrength of ftone. No lintels are to be feen; no extravagant pro. jections. Every ftone is preffed to its neighbours, and none is expofed to a tranfverle ftrain. The Greeks were enabled to execute their coloffal buildings only by uling immenfe blocks of the hardeft materials. The Norman malon could raife a building to the fkies without ufing a fone which a labourer could not carry to the top on his back. Their architects fudied the principles of equilibrium; and having attained a wonderful knowledge of it, they indulged themfelves in exhibiting remarkable inftances. We call this falfe tafte, and fay that the appearance of infecurity is the greateft fault. But this is owing to our habits: our thoughts may be faid to run in a wooden train, and certain fimple maxims of carpentry are familiar to our imagination; and in the careful adherence to the fe confifts the beauty and fymmetry of the Greek architecture. Had we been as much habituated to the equilibrium of preffure, this apparent infecurity would not have met our eye: we would have perceived the ftrength, and we fhould have relifhed the ingenuity.

The Gothic architecture is perhaps intitled to the Rational name of rational architecture, and its beauty is founded nature of on the characteriftic diftinction of our fpecies. It de-the Gothic ferves cultivion: not the pitiful, fervile, and architeco filled copying of the monuments ; this will produce incongruities and abfurdities equal to any that have crept into the Greek architecture : but let us examine with attention the nice difpofition of the groins and fpaundrels; let us ftudy the tracery and knots, not as ornaments, but as ufeful members; let us obferve how they have made their walls like honey-combs, and admire their ingenuity as we pretend to admire the inftinct infufed by the great Architect into the bee. All this cannot be underftood without mechanical knowledge ; a thing which few of our profeffonal architects bave any fhare of. Thus would architectonic tafte be a mark of fkill; and the perfon who prefents the defign of a build-

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Roof.' ing frouk know how to execute it, without committing it entirely to the mafon and carpenter.

Thele obfervations' are not a digreffion from our fubject. The fame prisciples of mutual preffure and equilibrium have a place in roofs and many wooden edifices; and if they had been as much fudied as the Normans and Saracens feem to have ftudied fuch of them as were applicable to their purpofes, we night have woduced wooden burldings as far fuperior to what we are fami. liarly 'acquainted with, as the bold and wonderful cburches ltill retnaining in Europe are fuperior to the timid productions of our ftone architecture. The ceintres ufed in building the bridge of Orleans and the corn-market of Paris, are late inftances of what may be done in this'way. The laft mentioned is a dome of 200 feet diameter, built of fir planks; and there is not a piece of timber in it more than nine feet long, a foot broad, and three inches thick.

The Norman architects frequently roofed with ftone. Their wooden roofs were in general very fimple, and their profeffed aim was to difpenfe with them altogether. Fond of their own fcience, they copied nothing from a wooden building, and ran into a fimilar fault with the ancient Greeks. The parts of their buildings which were neceffarily of timber were made to imitate ftone-buildings; and Gothic ornament confifts in cramming every thing full of arches and fpaundrels. Nothing elfe is to be feen in their timber works, nay even in their fculpture. Look at any of the maces or fceptres ftill to be found about the old cathedrals; they are filver fteeples.

But there appears to have been a rivalhip in old times between the mafons and the carpenters. Many of the baronial halls are of prodigious width, and are roofed with timber: and the carpenters appeared to have borrowed much knowledge from the mafons of thofe times, and their wide roofs are frequently conflructed with great ingenuity. Their aim, like the mafons, was to throw a roof over a very wide building without employing great logs of timber. We have feen roofs 60 feet wide, without having a piece of timber in it above 10 feet long and 4 inches fquare. The Parliament Houfe and Tron-Church of Edinburgh, and the great hall of Tarnaway caftle near Forres, are fecimens of thofe roofs. They are very numerous on the continent. Indeed Britain retains few monuments of private magnificence. Ariftocratic ftate never was fo great with us; and the rancour of our civil wars gave moft of the performances of the carpenter to the flames. Weftminfter-hall exhibits a fpecimen of the falfe tafte of the Norman roofs. It contains the effential parts indeed, very properly difpofed; but they are hidden, or intentionally covered, with what is conceived to be ornamental; and this is an imitation of ftone arches, crammed in between flender pillars which hang down from the principal frames, truffer, or rafters. In a pure Norman roof, fuch as Tarnaway hall, the effential parts are exhibited as things underftood, and therefore relifhed. They are refined and ornamented; and it is here that the iliferior kind of tafte or the want of it may appear. And here we do not mean to defend all the whims of our ancellors; but we affert that it is no more neceflary to confider the members of a roof as things to be concealed like a garret or privy, than the members of a ceiling, which' forts the 'moft beautiful part of the

Greek architenture. Should it be faid that a roof is -Roof. ooly a thing to keep off the rain, it may be anfivesed, that a cciling is only to keep off the dut, or the floor to be trodden under foot, and that we fhould have neither conartments in the one nor inlaid wouh or carpets on the other, The ftructure of a roof may therefore be exliibited with propricty, and minde an ornamental feature. This has been donc even in Italy. The church of St NIaria Mageiore in Rome and feveral others are fiecimens : but it muft be acknowledged, that the forms of the principal frames of theie rocts, which refemble thofe of our modern buildings, are very unat for agrecable ornament. As we have alieady oblerved, our imayinations have not been made fufficiently familiar with the principles, and we are rather alarmed than pleafed with the appearance of the immenle logs of timber which form the couples of thefe roofs, and hang over our heads with every appearance of weight and danger. It is quite otherwife with the ingenious roofs of the German and Norman architeets. Slender timbers, interlaced with great fymmetry, and thrown by nectitity in. to figures which are naturally pretty; form aliogether an object which no carpenter can view without pleafure. And why thould the gentleman refute bimfelf the fame pleafure of beholding fcientific ingenuity?

The roof is in fact the part of the building which Neceffity requires the greateft degree of \&ill, and where icience ficience will be of more fervice than in any other part. The informing arcbitect feldom knows much of the matter, and leaves ${ }^{\text {to }}$ the tafk to the carpenter. The carpenter contiders the framing of a great roof as the touchitone of his art; and nothing indeed tends fo much to thow his judgement and his fertility of refource.

It mult therefore be very acceptable to the artift to have a clear vies of the principles by which this difficult problem may be folved in the bell manner, fo that the roof may have all the flreng $h$ and fecurity tiat can be wifhed for, without an extravagant expence of timber and iron. We have faid that mechanical fcience can give great affiftance in this matter. We may add that the framing of carpentry, whetber for roofs, floors, or any other purpole, affords one of the molt elegant and moft fatisfactory applications which can be made of mechanical fcience to the arts of common life. Un-and tie fortunately the practical artill is feldom poffeffed even little atof the fimall portion of fcience which would almoll in-therto paid fure bis practice from all rilk of failure; and even our to it. moft experienced carpenters have feldom any more knowledge than what arifes from their experience and natural lagacity. The molt approved author in our language is Price in his Britihl Carpenter. Mathurin Joufle is in like manner the author moll in repute in France; and the publications of both thele authors are void of every appearance of principle. It is not uncommon to fee the works of carpenters of the greatelt reputation tumble down, in confequence of miftakes from which the moft elementary knowledge would have faved them.

We fnall attempt, in this article, to give an account Purpofe of the leading principles of this art in a manner fo fami- of this arliar and palpable, that any perfon who knows the common ${ }^{\text {tile. }}$ properties of the lever, and the compofition of motion, Ahall fo far underftand them as to be able, on every occafion, fo to difpofe his materials, with refpect to the ftrains to which they are to be expofed, that he thall
always

Roof alrways know the effective frain on every piece, and fhall, in moft cafes, be able to make the difpofition fuch as ta derive the greateft poffible advantage from the materials which he employs.
Principtes which regulate the ftrength of the materials.

It is evident that the whole muft depend on the principles which regulate the flrength of the materials, relativa to the manner in which this flrength is exerted, and the manner in which the ftrain is laid on the piece of matter. With refpect to the firft, this is not
the proper place for confidening it, and we muft refer the reader to the article STRENGIH of Materials in Mechanics. We fhall juft borrow from that article two or three propofitions fuited to our purpafe.

The force with which the materials of our edifices, roofs, floors, machines, and framings of every kind, refift being broken or crufhed, or pulled afunder, is, immediately or ultimately, the cohefion of their particles. When a weight hangs by a rope, it tends either immediately to break all the fibres, overcoming the cohefion among the particles of each, or it tends to pull one parcel of them from among the reft, with which they are joined. This union of the fibres is brought about by fome kind of gluten, or by twifting, which caufes them to bind each other fo hard that any one will break rather than come out, fo mucb is it withheld by friction. The ultimate refiftance is therefore the cohefion of the fibre; the force or ftrength of all fibrous materials, fuch as timber, is exerted in much the fame manner. The fibres are either broken or pulled out from among the reft. Metals, itone, glafs, and the like, refift being pulled afunder by the fimple cohefion of their parts.

The force which is neceffary for breaking a rope or wire is a proper meafure of its ftrength. In like manner, the force neceffary for tearing directly afunder any rod of wood or metal, breaking all its fibres, or tearing them from among each other, is a proper meafure of the united ftrength of all thefe fibres. And it is the fimplett ftrain to which they can be expofed, being juft equal to the fum of the forces neceffary for breaking or difengaging each fibre. And, if the body is not of a fibrous ftructure, which is the cafe with metals, itones, glats, and many other fubflances, this force is ftill equal to the fimple fum of the cohefive forces of each particle which is feparated by the fracture. Let us diftinguilh this mode of exertion of the cohefion of the body by the name of its ABsolute Strenctif.

When folid bodies are, on the contrary, expofed to great compreffion, they can refift only a certain degree. A piece of clay or lead will be fqueczed out; a picce of freeftone will be crufhed to powder; a beam of wood will be crippled, fweling out in the middle, and its fibres lofe their mutual cchefion, after which it is eafily crufhed by the lond. A notion may be formed of the manner in which thefe ftrains are refitted by conceiving a cylindrical pipe filled with frall fhot, well fhaken together, fo that each fphericle is lying in the clofeft manner poffible, that is, in contact with fix others in the fame vertical plane (this being the pofition in which the fhot will take the leaft room). Thus each touches the reft in fix points: Now fuppofe them all uniled, in thefe fix points only, by fome cement. This affemblage will ftick together and form a cylindrical pillar, which may be taken out of its mould. Sup-
pofe this pillar fanding upright, and loaded above, The fupports arifing from the cement act obliquely, and the load tends either to force them afunder laterally, or to make them flide on each other: cither of thece things happening, the whole is cruflhed to pieces. The refiftance of fibrous materials to fuch a ftrain is a little more intricate, but may be explained in a way very fimilar.

A piece of matter of any kind may alfo be deftroyed by wrenching or twitting it. We can eafily form a notion of its refifance to this kind of ftrain by confidering what would happen to the cylinder of fmall fhot if treated in this way.

And laftly, a beam, or a bar of metal, or piece of fone or other matter, may be broken tranfiverfely. This will happen to a rafter or joif fupported at the ends when overloaded, or to a beam having one end ftuck falt in a wall and a load laid on its projecting part. This is the frain to which materials are moft commonly expofed in roofs; and, unfortunately, it is the ftrain which they are the leaft able to bear; or rather it is the manner of application which caufes an external force to excite the greateft poffible immediate ftrain on the particles. It is againft this that the carpenter muft chiefly guard, avoiding it when in his power, and in every cafe, diminifhing it as much as poffible. It is neceffary to give the reader a clear no- Their ${ }^{17}$ tion of the great weaknefs of materials in relation weaknefs to this tranfverfe ftrain. But we fhall do nothing in retatation more, referring him to the articles Strain, Stress, verfe traniand Strength.
Let ABCD (fig. I.) reprefent the fide of a beam pro- Arains. Plate jecting horizontally from a wall in which it is firmly ceccexur. fixed, and let it be loaded with a weight $W$ appended to its extremity. This tends to break it; and the leaft reflection will convince any perfon that if the beam is equally ftrong throughout, it will break in the line CD, even with the furface of the wall. It will open at D , while C will ferve as a fort of joint, round which it will turn. The crofs fection through the line CD is, for this reafon, called the fection of fraiture, and the horizontal line, drawn through $C$ on its under furface, is called the axis of fracture. The fracture is made by tearing afunder the fibres, fuch as DE or FG . Let us fuppofe a real joint at C, and that the beam is really fawed through along CD, and that in place of its natural fibres threads are fubfituted all over the fection of fracture. The weight now tends to break thefe threads; and $i t$ is our bufinefs to find the force neceffary for this purpofe.

It is evident that DCA may be confidered as a bended lever, of which $C$ is the fulcrum. If $f$ be the force which will juft balance the cohefion of a thread when hung on it fo that the fmalleft addition will break it, we may find the weight which will be fufficient for thls purpofe when hung on at A , by faying, $\mathrm{AC}: \mathrm{CD}$ $=f: \varphi$, and $\varphi$ will be the weight which will juft break the thread, by hanging $\phi$ by the point $A$. This gives us $\varphi=f \times \frac{C D}{C A}$. If the weight be hung on at $a$, tbe force juft fufficient for breaking the fame thread will be $=f \frac{\mathrm{CD}}{\mathrm{Ca}}$. In like manner the force $\varphi$, which muft be hung on at $A$ in order ta break an equally froug or ant equally

## $R \quad 0 \quad 0 \quad\left[\begin{array}{lll}255\end{array}\right] \quad R \quad 0 \quad 0$

$\underbrace{\text { Roof }}$ equally refiffing fibre at. F, mant be $=f \times \frac{\mathrm{CF}}{\mathrm{CA}}$. And fo on of all the reft.

If we fuppofe all the fibres to exert equal refiftances at the inftant of fracture, we know, from the fimpleft elements of mechanics, that the refiftance of all the particles in the line $C D$, each acting equally in its own place, is the fame as if all the individual refiltances were united in the middle point $g$. Now this total refifitance is the refiftance or ftrength $f$ of each particle, multiplied by the number of particles. This number may be expreffed by the line CD, becaufe we have no reafon to fuppofe that they are at unequal diftances. Therefore, in comparing different fections together, the number of particles in each are as the fections themfelves. Therefore DC may reprefent the number of particles in the line $\mathrm{DC}^{\prime}$. Let us call this line the depth of the beam, and exprefs it by the fymbol $d$. And fince we are at prefent treating of roofs whofe rafters and other parts are commonly of uniform breadth, let us call AH or BI the breadth of the beam, and exprefs it by $b$, and let CA be called its length, l. We may now exprefs the flrength of the whole line $C D$ by $f \times d$, and we may fuppofe it all concentrated in the middle point $g$. Its mechanical energy, therefore, by which it refifts the energy of the weight $w$, applied at the diftance $l$, is $f . \mathrm{CD} . \mathrm{C} g$, while the momentum of $w$ is $w . \mathrm{CA}$. We muft therefore have $f . \mathrm{CD} . \mathrm{C} g=w$. CA , or $f d . \frac{1}{2} d$ $=w . l$, and $f d: w=l: \frac{1}{2} d$, or $f d: w=2 l: d$. That is, twice the length of the beam is to its depth as the abfolute frength of one of its vertical planes to its relative flrength, or its power of refiliting this tranfverfe fracture.

It is evident, that what has been now demonftrated of the refiftance exerted in the line $C D$, is equally true of every line parallel to CD in the thicknefs or breadth of the beam. The abfolute frength of the whole fection of fracture is properly reprefented by $f . d . b$, and we fill have $2 l: d=f d b: w$; or twice the length of the bean is to its depth as the abfolute frength to the relative flrength. Suppofe the beam 12 feet long and one foot deep; then whatever be its abfolute ftrength, the $24^{\text {th }}$ part of this will break it if hung at its extremity.

But even this is too favourable a flatement; all the fibres are fuppofed to act alike in the inftant of fracture. But this is not true. At the inflant that the fibre at D breaks, it is firetched to the utmoft, and is exerting its whole force. But at this inflant the fibre at $g$ is not fo much ftretched, and it is not then exerting its utmoft force. If we fuppofe the extenfion of the fibres to be as their diftance from C , and the actual exertion of each to be as their extenfions, it may eafily be fhown (fee Strength and Strain), that the whole refiftance is the fame as if the full force of all the fibres were united at a point $r$ diflant from C by one-third of CD. In this cafe we mutt fay, that the abfolute Arength is to the relative flrengih as three times the length to the depth; fo that the beam is weaher than by the former flatement in the proportion of two to three.

Even this is more Arength than experiment iufifies; and we can fee an evident reafon for it. When ube beam is ftrained, not only are the upper fibres ffretched, but the lower fibres are compreffed. This is very di-
ftinetly feen, if we attempt to breakea piece of cork: cutt R60 ? into the fhape of a beam: this being the cate, $C$ is not the centre of fracture. There is fome point $c$ wbich lies between the fibres which are itretched and thole that are compreffed. This fibre is neither fretched nor fqueezed; and this point is the real centre of fracture: and the lever by which a fibre 1 refilts, is not DC, but a fhorter one $\mathrm{D} c$; and the energy of the whole refiftances mult be lefs than by the lecond fatatment. Till we know the proportion between the dilatability and compreflibility of the parts, and the relation between the dilatations of the fibres and the refiltances which they exert in this fate of dilatation, we cannot pofitively fay where the point $c$ is fituated, nor what is the fum of the actual refitances, or the point where their action may be fuppofed concentrated. The firmer woods, fuch as oak and chefnut, may be fuppofed to be but ilightly compreffible; we know that willow and other foft woods are very compreflible. Thefe laft mut therefore be weaker: for it is evident, that the fibres which are in a ftate of compreflion do not refift the fracture. It is well known, that a beam of willow may be cut through from C to g without weakening it in the leaft, if the cut be filled up by a wedge of hard wood fluck in.

We can only fay, that very found oak and red fir have the centre of effort fo fituated, that the abfolute ftrength is to the relative ftrength in a proportion not lefs than that of three and a half times the length of the beam to its depth. A fquare inch of found oak will carry about 8000 pounds. If this bar be firmly fixed in a wall, and project 12 inches, and be loaded at the extremity with 200 pounds, it will be broken. It will juf bear 190 , its relative ftrength being $4^{\frac{1}{x}}$ of its abfolute ftrength; and this is the cafe only with the fineft pieces, fo placed that their annual plates or layers are in a vertical pofition. A larger $\log$ is not fo ftrong tranfverfely, becaufe its plates lie in various directions round the heart.

Thefe obfervations are enough to give us a diftinet Practical notion of the vaft diminution of the flrength of timberinierence. when the ftrain is acrofs it; and we fee the juttice of the maxim which we inculcated, that the carpenter, in framing roofs, thould avoid as much as polfible the expofing hís timbers to tranfverfe ftrains. But this cannot be avoided in all cafes. Nay, the ultimate itrain, arifing from the very nature of a roof, is tranfverfe. The rafters mult carry their own weight, and this tends to break them acrofs: an oak beam a foot deep will not carry its own weight if it project more than 60 feet. Befides this, the rafters mult carry the lead, tyling, or flates. We muft therefore confider this tranfverfe frain a little more particularly, fo as to know what flrain will be laid on any part by an unavoidable load, laid on either at that part or at any other.

We have hitherto fuppofed, that the beam had one Effect when of its ends fiked in a wall, and that it was loaded at the beat:s are other end. This is not an ufual arrangement, and was fuppore d taken merely as affording a fimple application of the at the cods mechanical principles. It is much more ulual to have in th midd the heam fupported at the ends, and loaded in the middle. Let the beam l EGH (fig. 2.) teft on the props E and G , and be luaded at its middle point $\mathbb{C}$ wi:h a weight W . It is required to decornive be frain at the fection CD ? It is plain that the orem will recsive the fane fupport, and fuffer the lance truin, if,
will require another weight W to break it there at the fame time.

Therefore, when a rafter, or any piece of timber, is firmly connected with three fixed points G, E, I, it will bear a greater load between any two of them than if its connection with the remote point were removed ; and if it be faftened in four points, G, E, I, K, it will be twiee as itrong in the middle part as without the two remote connedions.

One is apt to expect from this that the joift of a floor will be much ftrengthened by being firmly built in the wall. It is a little ftrengthened; but the hold which can thus be given it is much too niort to be of any fenfible fervice ; and it tends greatly to fhatter the wall, becaule, when it is bent down by a load, it forces up the wall with the momentum of a long lever. Judicious builders therefore take care not to bind the joifts tight in the wall. But when the joifts of adjoining rooms lie in the fame direction, it is a great advantage to make them of one piece. They are then twice as ftrong as when made in two lengths.

It is eafy to deduce from thefe premifes the ftrain on Inferencer. any point which arifes from the weight of the beam itfelf, or from any load which is unitormly diffufed over the whole or any part. We may always confider the whole of the weight which is thus uniformly diffufed over any part as united in the middle point of that part ; and if the load is not uniformly diffufed, we may itill fuppofe it united at its centre of gravity. Thus, to know the ftrain at L arifing from the weight of the whole beam, we may fuppofe the whole weight accumulated in its middle point $D$. Alfo the firain at $L$, arifing from the weight of the part ED, is the fame as if this weight were accumulated in the middle point $d$ of ED; and it is the fame as if half the weight of ED were hung on at D. For the real ftrain at $L$ is the upward preflure at G, acting by the lever G L. Now call the weight of the part $\mathrm{DE} e$; this upward preflure will be $\frac{e \times d \mathrm{E}}{\mathrm{EG}}$, or $\frac{\frac{7}{2} e \times \mathrm{DE}}{\mathrm{EG}}$.

Therefore the firain on the middle of a beam, arifing from its own weight, or from any uniform load, is the weight of the beam or its load $\times \frac{\mathrm{ED}}{\mathrm{EG}} \times \mathrm{DG}$; that is, half the weight of the beam or load multiplied or acting by the lever $D G$; for $\frac{E D}{E G}$ is $\frac{\pi}{2}$.

Alfo the ftrain at L, arifing from the weight of the beam, or the uniform load, is $\frac{7}{2}$ the wei,ht of the beam or load acting by the lever LG. It is therefore proportional to LG, and is greateft of all at D. Therefore a beam of uniform ftrength throughout, uniformly loaded, will break in the middle.

It is of importance to know the relation between the firains arifing from the weights of the beams, or between from any uniformly diffufed load, and the relative he weights ftrength. We have already feen, that the relative or ftrains ftrength is $f \frac{l^{\prime} h . d}{m l}$, where $m$ is a number to be difco-lative revered by experiment for every different fpecies of materials. Leaving out every circumftance but what depends on the dimenfions of the beam, viz. $d, b$, and $l$,

## $\mathrm{R} O$ O $\quad\left[\begin{array}{lll}257 & ]\end{array} \mathrm{R} O \quad \mathrm{O}\right.$

Roof. We fee that the relative frength is in the proportion of $\frac{d^{3} b}{l}$ directly and the length inverfely.

Now, to confider firlt the ilrain arifing from the weight of the beam itfelf, it is evident that this weight increafes in the fame proportion with the depth, the breadth, and the length of the beam. Therefore its power of refilting this ttrain mutt be as its depth direct. ly, and the fquare of its length inverfely. To confider this in a more popular manner, it is plain that the increale of breadth makes no change in the power of refilting the actual ftrain, becaufe the load and the abfolute ftrength increafe in the fame proportion with the breadth. But by increafing the depth, we increafe the refifing fection in the fame proportion, and therefore the number of refifting fibres and the abfolute ftrength: but we alfo increafe the weight in the fame proportion. This makes a compenfation, and the relative ftrcngth is yet the fame. But by increafing the depth, we have not only increafed the abfolute flrength, but allo its mechanical energy : For the refiflance to fracture is the fame as if the full frength of each iibre was exerted at the point which we called the centre of effort; and we fhowed, that the diftance of this from the underfide of the beam was a certain portion (a half, a third, a fourth, \&c.) of the whole depth of the beam. This diftance is the arm of the lever by which the cohefion of the wood may be fuppofed to act. Therefore this arm of the lever, and confequently the energy of the refiftance increafes in the proportion of the depth of the beam, and this remains uncompenfated by any increafe of the firain. On the whole, therefore, the power of the beam to fuftain its orn weight increafes in the proportion of its depth. But, on the other hand, the power of withftanding a given ftrain applied at its extremity, or to any aliquot part of its length, is diminifhed as the length increafes, or is inverfely as the length; and the ftrain ariling from the weight of the beam alfo increafes as the length. Therefore the power of refifting the ftrain actually exerted on it by the weight of the beam is inverfely as the fquare of the length. On the whole, therefore, the power of a beam to carry its own weight, varies in the proportion of its depth directly and the fquare of its length inverfely.

As this ftrain is frequently a confiderable part of the whole, it is proper to confider it apart, and then to reckon only on what remains for the fupport of any extraneous load.

Power of 2 beam to carry a load uniformly diffured over its :ength.

In the next place, the power of a beam to carry any load which is uniformly diffufed over its lengtb, muft be inverfely as the fquare of the length : for the power of withftanding any ftrain applied to an aliquot part of the length (which is the cafe here, becaufe the load may be conceived as accumulated at its centre of gravity, the middle point of the beam) is inverfely as the length; and the arfual frain is as the length, and therefore its momentum is as the fquare of the length. Therefore the power of a beam to carry a weight uniformly diffufed over it, is inverfely as the fquare of the length. N. B. It is here underfood, that the uniform load is of fome determined quantity for every foot of the length, fo that a beam of double length carries a double load.

Wie have litherto fuppofed that the forces whicla Tol. XVIII. Patt I.
tend to break a beam tranfverfely, are acting in a direction perpendicular to the beam. This is always the cafe in level flours loaded in any manner ; but in roofs, 23 the action of the load tending to break the wafters is obefect when lique, becaufe gravity alivays acts in vertical lines It of the load may alfo frequently happen, that a beam is flrained by $1=$ oblique. a force acting oblizuely. This modification of the frain is eafily difcured. Suppofe that the exiernal force, which is neafured by the weight W in fig. 1. acts in the direction $\Lambda w w^{\prime}$ inflead of $\Lambda W$. Draw $\mathrm{C} \dot{a}$ perpendicular to $A v$. Then the momentum of this external force is not to be meafured by $\mathrm{V} \times A \mathrm{C}$, but by $\mathrm{W} \times a ́ \mathrm{C}$. 'The ftrain therefore by which the fibres in the fection of fracture DC are turn afander, is diminifhed in the proportion of CA to $\mathcal{C} a ́$, that is, in the proportion of radius to the fine of the angle $\mathrm{C} \perp \dot{a}$, which the beam makes with the direction of the external force.

To apply this to our purpofe in the mof familiar manner, let AB (fig. 3.) be an oblique ratter of a build. Fig. 3 ing, loaded with a weight WT fufpended to any point C , and thereby occafooning a frain in fome part D . We have already feen, that the immediate caufe of the ftrain on $D$ is the reaction of the fu port which is given to the point B. The rafter may at prefent be confidered as a lever, fupported at A, and pulled down by the line CW. This occafions a preffure on $B$, and the fupport acts in the oppofite direction to the action of the lever, that is, in the direetion $\bar{B} b$, perpendicular to BA. This tends to break the beam in every part. The preflure exerted at $B$ is $\frac{W \times A E}{A B}$, $A E$ being a horizontal line. Therefore the ftrain at D will be $\frac{W \times A E}{A B} \times B D$. Had the beam been 1 ying horizontally, the ftrain at D , from the weight W fufpended at C, would have been $\frac{W A C}{A B} \times B D$. It is therefore diminifhed in the proportion of $A C$ to $A E$, that is, in the proportion of radius to the cofine of the elevation, or in the proportion of the fecant of elevation to the radius.

It is evident, that this latr of diminution of the frain is the fame whether the ftrain arifes from a load on any part of the rafter, or from the weight of the rafter itfelf, or from any load uniformly diffifed over its length, provided only that thefe loads act in vertical lines.

We can now compare the ftrength of roofs which strength cf have different clevations. Suppofing the width of the toofs habuilding to be given, and that the weight of a fquare ving dereryard of covering is allo given. Then, becaufe the load ent elevaon the rafter will increafe in the fame proportion with pared. its length, the load on the flant-fide BA of the roof will be to the load of a fimilar covering on the half AF of the llat roof, of the fame widtll, as $\triangle \mathrm{B}$ to AP . Put the tranfverfe action of any load on A.B, by which it tends to break it is to that of the fame load un $\triangle \mathrm{F}$ as AF to $\Lambda \mathrm{B}$. The tranfverfe flrain therefore is the fame on both, the increale of real load on $\triangle B$ beine compenfated by the obliquity of its attion. But the ftrengths of beams to refift equal firains, applied to fimilar points, or uniformly diffufed over them, are in. verfcly as their lengths, becaule the momentum or energi of the ftrain is proportional to the leng'h. Therk. K k
for

## $\mathrm{B} O$ O $\left[\begin{array}{lllll}258\end{array}\right] \quad$ R O O

Rooi. fore the power of $A B$ to withitand the frain to which it is really expoled, is to the power of AF to refil its ftrain as $A F$ to $A B$. If, therefore, a rafter $\Lambda G$ of a certain foantling is jut able to carry the roofing laid on it, a rafter $A B$ of the fame feantling, but rove elevated, will be too weak in the proportion of AG to AB. Therefore Itecper roofs requive łłouter rafters, in order that they may be equally able to carry a roofing of equal weight per fquare yard. To be equally ftrong, they mult be made broadcr, or placed nearer to each other, ia the proportion of their greater length, or they muft be made deeper in the fubduplicate proportion of their length. The following ealy confruttion will enable the artift not familiar with computation to proportion the depth of the rafter to the flope of the roof.

Let the horizontal line af (fig. 4.) be the proper depth of a beam whofe length is halt the width of the building; that is, fuch as would make it fit for carrying the intended tiling laid on a that roof. Draw the vertical line $f b$, and the line $a b$ having the clevation of the rafter ; make ag equal to $o f$, and dcraike the femicircle $b d \delta$; draw $a d$ perpendi ular to $a b, a d$ is the required depth. The demon tration is evicient.

We have now treated in futhicio it det: $i$, : in at relates to the chief itrain on the component yirts of a rouf, namely, what tends to break them tranfvericly ; a-d we have enlarged more on the fubseef than what the prefent occafion indifpenfably requized, becaufe the prepofisions which we have demon'trated are equaliy applicable to 311 familigs of car $_{t}$ n:ry, and are cven of greater moment in many cales, partic:alatly in the conftruction of machines. Thefe confiti of levers in various furms, which are ftrained traniverfely ; and fimilar ftrains frez̧ently occur in many of the fupperting and comectiang paris. We hall give in the atticle Tinaber an account of the experiments which have been made by different maturalifts, in order to afcertain the abfolute firength of fome of the materinis which are moft generally framed together in buildings and engines. The houfe-carpenter will iraw from them abfolute numbers, which he can apply to his particular purpofes by means of the propofitions which we have now eftablifhed.

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of thatats.

We proceed, in the next place, to confider the other frains to which the parts of roofs are expofed, in confequence of the fupport which they mutually give cach other, and the prefiures (or thryfs as they are called in the language of the houfe-carpenter) with they exert. on each other, and on the walls or picrs of the building.
Fg. 5 .
known in mechani.es that the fupports given by pl.nes are exeried in a direstion perpendicular to thofe plimes in the points of contact ; and we know that the neight of the beam acts in thic fame mamer as if it.were ail accumulated in its centre of gravity $G$, and that it acts in the dirtsion GN perpendicular to the hurizon. Mo:cover, when a body is in equilibrio betreen three forces, they are acting in one plane, and their directions are either parallel or they pals through one point.

The fupport given to the beam is therefore the fame as if it wele fufpended by wo lines which are attached to the fingle point P. We may alfo infer, that the points of fufpenfion $\mathrm{C}, \mathrm{D}$, the points of fupport $\mathrm{E}, \mathrm{I}$, the points of contiof $A, B$, and the centre of gravity $G$, are all in one vertical plane.

When this pofition of the beam is ditlurbed by any external force, there muft either be a motion of tise points $A$ and $B$ round the centres of fuipenfon $C$ and D, or of tlie props round thele points of lupport $E$ and I, or a flicing of the ends of the beam along the polifhed planes GH and IK ; and in confoquence of thele rotions ,he centre of gravity $G$ will go cut of its place, and the vertical line $\overline{G N}$ will no langer pats through the foint where the dicettions of the fuptorts interkect each othor. If the centre of gravity rifes by this motion, the body will have a tendency to recover its former pefition, and it will require force to keep it awzy from it. In this cafe the equilibrium may be faid tobefable, or the boty to have fability. But if the centre of gravity defoends when the bedy is moved frum the pofition of equilibrium, it will tend to move ilill firther: A.d fo far will it be from recovering its fonne: pofition, that it will now fall. This equitibrium may Le called a tớcirs ofilitritim. Thefe accidents depence on the fituations of the points $A, B, C, D, E, F$; and they may be determined by confidering the lulject geometrically: It does not much interelt us at preferat; it is rarely that die equititritm of fufpetion is tottering, ex that of props is th.ble. It is evident, that if ate beers vere fuffended by lines from the poini $P$, it wowid have ftability, for it would fwing like a pendultim round $P$, and therefore would always tend towards the pulition of equilibrium. The interfection of the lines of fupport would still be at $P$, and the vertical line drawn through the centre of gravity, when in any other filuation, would be on that fide of P towards which this centre has been moved. Therefore, by the rules of pendu?ous bodies, it tends to come back. This woutd Lc more remarkably the cafe if the points of fufpenfio: $\because$ and $D$ be on the fame fide of the point $P$ with the points. of attachment A and B ; for in this cafe the new point of interfection of the lines of fuyport would filift to the oppofite fide, and be fill fartler from the vertical line through the new pofition of the centse of gravity. But if the points of fufpenfion and of attachment are on oppofite fides of $P$, the new point of interfection may $n$ ift to the lame fide with the centre of gravity, and lie beyond the vertical line; in this cafe the equilibrium is tottering. It is ealy to perceive, too, that if the equilibrium of fufjenfion from the points $C$ and $D$ te flat:the equilibrium on the props $A E$ and $B F$ nuft be tottering. It is not necefiary for our prefent purpofe to engage more particularly in this difcuffion.

It is plain that, wit'i refpect to the mere momentary cquilibrium, there is no difference in the fuplert ty threads,

## $\mathrm{R} O \quad 0$

threads, or frops, or plancs, and we may fubilitute the one for the other. We frall find this lubllitulion ex. tremely uffal, becaufe we eafily conceive dillinet no. tious of the fupport of a body by litings.

Obferve farther, that if the whole nguze be inverted, and Atrings be fubitituted fior props, and props fur Hrings, the equilibrium will thll obtain : fur by comparing fig. 5. with fig. 6 . we fee that the vertical line through the centre of gravity will pals through the interfection of the two ttrings or props; and this is all that is ncceffary for the equilibrium : only it mult be obferved in the fubllitution of prons for threads, and of threads for prop, that if it be done without inverting the whole figure, a flable equiliorium becomes a tottering one, and vice verfa.

This is a moll ufeful propofition, efpccially to the unlettered artifan, and enables him to make a practical wis of problems which the greatell mechanical geniufes have found no eafy tafk to folve. An inftance will fiow the extent and utility of it. Suppofe it were required to make a manfard or kirb roof whofe width is
Fig. 7. $\hat{A B}(55.7$.$) , and confifing of the four equal rafters$ $\mathrm{AC}, \mathrm{CD}, \mathrm{DE}, \mathrm{EB}$. There can be no doubt but that its belt form is that which will put all the parts in equilibrio, fo that no ties or flays may be neceetrary for oppoling the uabalanced thrut of any part of it. Make
Fiz. s. a chain acdeb (fig. 8.) of tour equal pieces, loofely connected by pin-joints, roun.l which the parts are perfectly moveabie. Suipend this from two pins $a, b$, fixci in a horizontal line. This chairs or feftoon will arrange itfelf in fuch a form that its parts are in equilibrio. Then we know that if the figure be inverted, it will compofe the frame or truls of a kirb-roof $a y^{\delta}: b$, which is allo in equilibrio, the thrufts of the pieces balaneing each other in the fame manner that the mutual pulls of the hanging feftoon acdeb did. If the proportion of the height $d f$ to the width $a b$ is not fuch as pleares, let the pins $a, b$ be placed nearer or more diItant, till a proportion between the width and height is obtained which pleafes, and then make the figure ACDEB, fig. 7. fimilar to it. It is evident that this propofition will apply in the fame manner to the determination of the form of an arch of a bridge; but this is not a proper place for a farther difcufion.

We are now able to compute all the thrufts and other preflures which are exerted by the parts of a roof on
E.g 9. each other and on the walls. Let AB (fig. 9.) be a beam ftanding anyhow obliquely, and $G$ its centre of gravity. Let us fuppofe that the ends of it are fupported in any directions AC, BD, by frings, props, or planes. Let thefe directions meet in the point P of the vertical line PG pafling through its centre of gravity. Through G draw lines $\mathrm{G} a, \mathrm{G} b$ parallel to PB , PA. Then
$\left.\begin{array}{l}\text { The weight of the beam } \\ \text { The preffure or thruft at } \mathrm{A} \\ \text { The preflure at } \mathrm{B}\end{array}\right\}$ are proportional to $\left\{\begin{array}{l}\mathrm{PG} \\ \mathrm{P} a \\ \mathrm{P} b .\end{array}\right.$ The preflure at $\mathrm{B} \quad\left\{\begin{array}{l}\mathrm{B} b \\ \text { For when a oody is in equilibrio between three forces, }\end{array}\right.$ the forces are proportional to the fides of a triangle which have their directions.

In like manner, if Ag be dramn parallel to P$\}$, we fhall have


Or, drawing E ; parallel to $\mathrm{P} a$
$\left.\begin{array}{l}\text { Weight of Leam } \\ \text { Thrull at } A \\ \text { Thruft at } B\end{array}\right\}$ are proportional to $\left\{\begin{array}{l}P_{\gamma} \gamma \\ Z_{\gamma} \\ 18\end{array}\right.$
It camoi be difputed that, if freng.h alone be coms. That. ac dered, the proper lorm of a roof is wat which puts the wo. whole in equilibrio, fo that it would remain in that lu 'st mia flape although all the joints were perfectly loofe or "h "w flesible. If it has any other Il ape, addlitional ties or mecturdbraces are neceflary for preferving it, and the parts are tra. unneceffarily flrained. When this equilibnium is obtained, the rafters which compofe the rooi are all acting on each other in the direction of their lengths; and by this aclion, combined with their weights, they fundin no ftrain buthat of compreflion, the titrais of :..1 cther, that they are the mof able to refi'l. We may cor fider them as fo many inflexiole lines having their weights accumulated in their centres of gravily. But it will a!low an eafier inveltigation of the fulject, if we fuppofe the weights to be at the joints, equal to the real vertical preflures which are eserted on thefe points. Theefc are very eafily computed: for it is plain, thit the weiglit of the beam AB (fig. 9.) is to the part of this weigut that is fupported at $B$ as $A B$ to $A G$. Therefore. if W reprefent the weight of the beam, the vertical preffure at $B$ will beg $\mathrm{W} \times \frac{A G}{A B}$, and the vertical preflure 2t $A$ will be $W \times \frac{B G}{A B}$. In like manner, the prop $D F$ being confidered as anotirer beam, and $f$ as its centre of gravity and $w$ as its weight, a part of this weight, equal to $w \times \frac{f F}{\mathrm{BF}}$, is fupported at $B$, and the whute vertical pref:e: at $B$ is $W \times \frac{A G}{A B}+w \times \frac{f \mathrm{~F}}{1 B F}$. And thus we greatly fimplify the confideration of the mutual thrulfs of roof frames. We need hardly obferve, that although theie preflures by which the parts of a frame fupport each other in oppofition to the vertical action of gravity, are always exerted in the direetion of the picces, they may be refoived into prefures acting in any other direction which may engage our attention.

All that we propofe to deliver on this fulieet at prefent may be included in the following propofition.

Let ABCDE (fig. 10.) be an affemblage of rafters Fiz. : in a vertical plane, refling on two fixed points 1 and E in a horizontal live, and perfectly moveable reund ali the joints $A, B, C, D, E$; and let it be fuppoled to be in equilibrio, and let us invelligate what adjultment of the different circumftances of weight and inclination of its difierent parts is necelfary for producing this equilibri:n

Let F, G, II, I, be the centres of gravity of the diffierent ralters, and let thefe letters exprefs the weights of each, Then (by what has been faid above) the weight. which preffes $B$ direstly downwards is $F \times \frac{A F}{A B}+G \times$ $\frac{\mathrm{CG}}{\mathrm{BC}}$. The weight on C is in tike mannecr $\mathrm{G} \times \frac{\mathrm{BG}}{\mathrm{BC}}+$ $\mathrm{H} \times \frac{\mathrm{DH}}{\mathrm{CD}}$, and that on D is $\mathrm{H} \times \frac{\mathrm{CH}}{\mathrm{CD}}+\mathrm{I} \times \frac{\mathrm{EI}}{\mathrm{DF}}$. ,

Let A $b c d E$ be the figure $A B C D E$ inverted, ih
 a thread fattened at A and E , and loaced at $b, c, \ldots$ a Ik $k 2$

## $\begin{array}{llll}\mathrm{R} O & {\left[\begin{array}{ll}260\end{array}\right]} & \mathrm{R} & \mathrm{O} \\ 0\end{array}$

Roof: $d^{\text {d }}$ tht the weights which are really preffing on $P, C$, and D. It sill arrange iffelf into fuch a form that all will be in equilibrio. We may difcover this form by means of this fingle confideration, that any part $b c$ of the thread is equally ftretched throughout in the direction of its length. Let us therefore inveritigate the proportion betreen the weight $\beta$, which we fuppofe to Le pulling the point $b$ in the vertical direction $b \beta$, to the weight $\delta$, which is pulling down the point $d$ in a fmilar manncr. It is evident, that fince AE is a horizontal line, and the figures $\mathrm{A} b c d \mathrm{E}$ and ABCDE equal and fimilar, the lines $\mathrm{B} b, \mathrm{C} c, \mathrm{D} d$, are vertical. Take $b f$ to reprefent the weight hanging at $b$. By fretching the threads $b \mathrm{~A}$ and $b c$ it is let in oppofition to the contractile powers of the threads, acting in the directions $b \mathrm{~A}$ and $b c$, and it is in immediate equilibrio with the equivalent of theie two contractile forces. Therefcre make $b g$ equal to $b f$, and make it the diagonal of a parallelogram $h b i g$. It is evident that $b h, b i$, are the forces exerted by the threads $b \mathrm{~A}, b c$. Then, feeing that the thread $b c$ is equally firetched in both directions, make $c k$ equal to $b i ; c k$ is the contractile force which is excited at $c$ by the weight which is hanging there. Draw $k l$ parallel to $c d$, and $/ m$ parallel to $b c$. The force $l c$ is the equivalent of the contractile forces $c k, c m$, and is therefore equal and oppqite to the force of gravity acting at C. In like manner, make $d n=c m$, and complete the parailelogram $n d p o$, having the vertical line od for its diagonal. Then $d n$ and $\tilde{d} p$ are the contradile forces excited at $d$, and the weight hanging there mult be equal to od.

Therefore, the load at $b$ is to the load at $d$ as $b g$ to do. But we have feen that the compreffing forces at $\mathrm{B}, \mathrm{C}, \mathrm{D}$ may be fubftituted for the extending forces at $b, c, d$. Therefore the weights at $\mathrm{B}, \mathrm{C}, \mathrm{D}$ which produce the compreffions, are equal to the weights at $\bar{b}, c, d$, which produce the extenfions. Therefore $b \mathrm{~g}: d \mathrm{o}=$ $\mathrm{F} \times \frac{\mathrm{AF}}{\mathrm{AB}}+\mathrm{G} \times \frac{\mathrm{CG}}{\mathrm{BC}}: \mathrm{H} \times \frac{\mathrm{CH}}{\mathrm{CD}}+\mathrm{I} \times \frac{\mathrm{EI}}{\mathrm{DE}}$.

Let us enquire what relation there is between this proportion of the loads upon the joints at B and D , and the angles which the rafters make at thefe joints with each other, and with the horizon or the plumb lines. Produce AB till it cut the vertical $\mathrm{C} c$ in Q ; draw BR parallel to CD , and BS parallel to DE . The fimilarity of the figures $A B C D E$ and $A b c d E$, and the fizilarity of their pofition with refpect to the horizontal and plumb lines, fhow, without any further deraonftration, that the triengles $Q C B$ and $g b i$ are fimilar, and that QB: $\mathrm{BC}=g i: i \widehat{b},=h b: i b$. Therefore QB is to $\widehat{B C}$ as the contractile force exerted by thie thread $\mathrm{A} b$ to that exerted by $b c$; and therefore $Q \mathrm{Q}$ is to BC as the compreflion of BA to the compreffion on BC (A). Then, becaufe $b i$ is equal to $c k$, and the triangles CBR and $c k l$ are fimilar, $\mathrm{CB}: \mathrm{BR}=c k: k l,=$ $c k: c m$, and CB is to BR as the compreflion on CB
to the compreffion $\in$ ह CD . And, in like manner, be-: Rovif. ${ }^{\text {. }}$ caufe $c m=d n$, we have BR to BS as the compreflion on DCito the compreffion on J)E. Aifo BR:RS= $n d: d o$, that is, as the compreflion on DC to the load on D. Finally, combining all the fe ratios

$$
\begin{aligned}
& \mathrm{OC}: \mathrm{CB}=g b: b i_{3}=5 b: k c \\
& \mathrm{CB}: \mathrm{B} R=k c: k,=k c: d n \\
& \mathrm{BR}: \mathrm{BS}=n d: n 0=d n: n o \\
& \mathrm{BS}: \mathrm{RS}=n o: d=n o: d o \text {, we have finally } \\
& \mathrm{QC}: \mathrm{RS}=g b: 0 d=\mathrm{Load} \text { at B : Load at D. } \\
& \text { Now }
\end{aligned}
$$

$Q C: B C=\int, Q B C: \int, B Q C,=\int, A B C: \int, A B b$
$\widehat{\mathrm{BC}}: \mathrm{BR}=\int, \mathrm{BRC}: \int \mathrm{BCR},=\int \mathrm{CD} d: \int, b \mathrm{BC}$
$\mathrm{BR}: \mathrm{RS}=\sqrt{ }, \mathrm{BSK}: \sqrt{2}, \mathrm{RBS}=\int, d \mathrm{DE}: \int, \mathrm{CDE}$
Therefore
$\mathrm{CC}: \mathrm{RS}=\int, \mathrm{ABC} \cdot \int, \mathrm{CD} d . \int, d \mathrm{DE}: \int, \mathrm{CDE} . \int, \mathrm{AB} b$. $\hat{r}, b \mathrm{BC}$.
$\mathrm{QC}: \mathrm{RS}=\frac{\int, \mathrm{ABC}}{\sqrt{, A \mathrm{AB} b \cdot \int \mathrm{CBb}}: \frac{\mathrm{Or}}{\int, d \mathrm{DC} \cdot \int, d \mathrm{DE}} .}$
That is, the loads on the different joints are as the fines of the angles at thefe joints directly, and as the products of the fines of the angles which the rafters make with the plumb-lines inverfely.

Or, the loads are as the fines of the angles of the joints directly, and as the products of the cofines of the elcvations of the rafters jointly.

Or, the loads at the joints are as the fines of the angles at the joints, and as the products of the fecants of elevation of the rafters jointly: for the fecants of angles are inverfely as the cofines.

Draw the horizontal line BT. It is evident, that if this be confidered as the radius of a circle, the lines $\mathrm{BO}, \mathrm{BC}, \mathrm{BR}, \mathrm{BS}$ are the fecants of the angles which thefe lines make with the horizon. And they are alfo as the thrufts of thofe rafters to which they are parallel. Therefore, the thruft which any rafter makes in its own direction is as the fecant of its elevation.

The horizontal thruft is the fame at all the angles. For $i_{i}=k x,=m \mu,=n \nu,=p \pi$. Therefore both walls are equally prefled out by the weight of the roof. We can find its quantity by comparing it with the load on one of the joints:
Thus, $\mathrm{QC}: \mathrm{CB}=\int, \mathrm{ABC}: \int, \mathrm{AB} b$

$$
\mathrm{BC}: \mathrm{BT}=\text { Rad. }: f, \mathrm{BCT},=\text { Rad. }: \int, \mathrm{CB} b
$$

Therefore, $\mathrm{QC}: \mathrm{BT}=$ Rad. $\times \ell, \mathrm{ABC}: \int, b \mathrm{BA} \times \int, b \mathrm{BC}$
It deferves remark, that the lengths of the beams The length do not affect either the proportion of the load at of the the different joints, nor the pofition of the rafters, beams deThis depends merely on the weights at the angles. pends on If a change of length affects the weight, this indeed at the ants affects the form alio: and this is generally the cafe. gles.
(A) This proportion might have been flown directly without any ufe of the inverted figure or confideration of contractile forces; but this fubflitution gives diffinct notions of the mode of acting even to perfons not much converfant in fuch difquiftions; and we wifh to make it familiar to the mind, becaufe it gives an eafy folution of the mof complicated problems, and furnihes the practical catpenter, who bas little fcience, with, folutions of the moft difficult cafes by experiment. A feftoon, as we called it, may eafily be made ; and we are certain, that the forres into which it will arrange itfelf are models of perfect frames.

## I O O [261] $\quad\left[\begin{array}{lll}26 & 0\end{array}\right.$

Raef. For it felciom happens, indeed it never mould happen, that the weight on rafters of longer bearing are not greater. The covering alone increafes nearly in the proportion of the length of the rafter.

If the proportion of the weights at $\mathrm{B}, \mathrm{C}$, and D are given, as alfo the pofition of any two of the lines, the pofition of all the refl is determined.

If the horizontal diftances between the angles are all equal, the forces on the different angles are proportional to the visicals drawn on the lines though thefe angles from the adjoining angle, and the thrults from the adjoining angles are as the lines which connect them.

If the rafters themfelves are of equal lengths, the weights at the different angles are as there verticals and as the fecants of the elevation of the rafters jointly.

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This propafition is very fruitful in its practical confequences. It is eafy to perceive that it contains the whole theory of the conitruction of arcbes; for each ftone of an arch may be confidered as one of the rafters of this piece of carpentry, fince all is kept up by its mere equilibrium. We may have an opportunity in fome future article of exhibiting fome very elegant and fimple folutions of the moft dificult cafes of this insportant problem; and we now proceed to make ufe of the knowledge we have acquired for the conltruction of roofs.

We mentioned by the bye a problem which is not unfrequent in practice, to deternine the beil form of a kirb-roof. Mr Couplet of the Royal Academy of Paris has given a folution of it in an elaborate memoir in 1726, occupying feveral lemozas and theorems.

Let AE (fig. II.) be the width, and CF the height; it is required to conitruct a roof ABCDE whofe rafters $\mathrm{AB}, \mathrm{BC}, \mathrm{CD}, \mathrm{DE}$, are all equal, and which fhall be in equilibrio.

Draw CE, and bifect it perpendicularly in H by the line DHG, cutting the horizontal line $\AA \mathrm{E}$ in G . About the centre $G$, with the diftance GE, defcribe the circle EDC. It mutt pals through C, becaufe CH is equal to HE and the angles at H are equal. Draw HK parallel to FE , cutting the circumference in K . Draw CK, cutting GH in D. Join CD, ED ; the fe lines are the rafters of balf of the roof required.

We prove this by Chowing, that the loads in the angles C and D are equal. For this is the proportion which refults from the equality of the rafters, and the extent of furface of the uniform roofing which they are fuppoled to fupport. Therefore produce ED till it meet the vertical FC in N ; and having made the fide CBA fimilar to CDE , complete the parallelogram BCDP, and draw DB, which will bifect CP in $R$, as the horizontal line KH , bifects CF in 0 . Draw KF , which is evidently parallel to DP. Make CS perpendicular to CF, and equal to FG ; and about S, with the radius SF , defcribe the circle FKW. It muft pals through K , becaufe SF is equal to CG , and $\mathrm{CQ}=$ QF. Draw WK, WS, and produce BC, cutting ND in O .

The angle WKF at the circum?erence is one-half of the angle IVSF at the centre, and is therefore equal to WSC, or CGF. It is therefore double of the angle CEF or ECS, But ECS is equal to ECD and DCS, and ECD is one-half of NDC, and DCS is one half of DCO, or CDP. Therefore the angle WKF is
equal to NDP, and WK is paraltel-to ND, mud $\mathrm{C}^{2}$ is. to CW as CP to CN ; and CN is equal to CP . But it has been fhown above, that CN and CP are as the. loads upon D and C. Thefe are therefore equal, and the frame ABCDE is in equilibrio.

A comparifon of this folution with that of Mr Coup. let will fhow its great advantage in refpect of fimplicity and perficuity. And the intelligent reader can eafily adapt the conitruction to any proportion between the ratiers $\triangle \mathrm{B}$ and BC , which other circurdtances, fuch as garret-rooms, \&c. may render convenient. The conItruction mult be fuch that NC may be to CP as CD to $C D+D E$ fumed, the point $D^{\prime}$ will be found in the circumference of a femicircle $\mathrm{H}^{\prime} \mathrm{D}^{\prime} h^{\prime}$, whofe centre is in the line CE , and having $\mathrm{AB}: \mathrm{BC}=\mathrm{CH}^{\prime}: \mathrm{HE},=c l^{\prime}: l^{\prime}$ E.-The relt of the conftruction is fimple.

In buildings which are roofed with flate, tyle, or fhingles, the circumflance which is moft likely to limit the conftruction is the dlope of the upper ratters $C B$, CD. This mult be fufficient to prevent the penetration of rain, and the ftripping by the winds. The only circumfance left in our clooice in this cale is the proportion of the rafters $A B$ and BC. Nothing is eafier than making NC to CP in any defired propottion when the angle $B C D$ is given.

Wre need not repeat that it is always a defirable thing The ${ }^{31}$ Iruls to form a trufs for a roof in fuch a manner that it ftall for a rooi be in equilibrio. When this is done, the whole force of faould althe ftruts and braces which are added to it is employed ways be in preferving this form, and no part is expended in un-brio, neceflary ftrains. For we nuft now oblerve, that the equilibrium of which we have been treating is always of that kind which we called the tottering, and the roof requires flays, braces, or hanging timbers, to give it ftiffnefs, or keep it in fhape. We have allo faid enough to enable any reader, acquainted with the moft elementary geometry and mechanics, to compute the tranfverfe ftrains and the thrufts to which the component parts of all roofs are expofed.

It only remains now to fhow the general maxims by Generat which all roofs muft be conftructed, and the circum-maxims by. ftances which determine their excellence. In doing this which alt we fhall be exccedingly brief, and almolt content our- roofs muft felves with exhibiting the principal forms, of which the ted.
endlefs variety of roofs are only flight modifications.We fhall not trouble the reader with any account of fuch roofs as receive part of their fupport from the interior walls, but confire ourfelves to the more dilicult problen of throwing a roof over a wide building, withont any intermediate fupport ; becaufe when fuci roofs are conftructed in the beft manner, that is, deriving the greateft poffible flrength from the materials employed, the beft conftruction of the others is neceffarily included. For all fuch roofs as reft on the middle-walls are roofs of fraller bearing. The only exception deferving notice is the roofs of churches, which have aiflcs feparated from the nave by columns. The roof muft rife on thele. But if it is of an arched form internally, the horizontal thrufts mult be nicely balanced, that they may not pufl the columns afide.

The fimpleft notion of a roof-frame is, that it confiits simpleft of two rafters $A B$ and $B C$ (fig. 12.), raeeting in the notion of ridge B .

## 

Roof. Even this fimple form is fufceptible of better and worfe. We have already fcen, that when the weight of a fquare yard of coveling is given, a fteeper roof requires ftrenger rafters, and that when the fcantling of the timbers is alfo given, the relative ffrength of a rafter is inverfely as its length. But there is now another circumflance to te taken into the account, viz, the fupport which one rafter leg gives to the other. The beft form of a rafter will theretore be that in which the relative ftrength of the legs, and their mutual fupport, give the greateft product. Mr Muller, in his Miltuary Engineer, gives a determination of the beit pitch of a roof, which bas confiderable ingenuity, and has been copied into many books of military education both in this illand and on the continent. Defcibe on the width AC, fig. I3. the femicicle $A F C$, and bifect it by the radius FD. Produce the rafter $A B$ to the circumference in E , join EC , and draw the perpendicular EG.Now $\mathrm{AB}: \mathrm{AD}=\mathrm{AC}: \triangle \mathrm{E}$, and $\mathrm{AE}=\frac{\mathrm{AD} \times \mathrm{AC}}{\mathrm{AB}}$, and $A E$ is inverfely as $A B$, and may therefore reprefent its frength in relation to the weight actually lying on it. Alfo the fupport which $C B$ gives to $A B$ is as CE, becaufe CE is perpendicular to AB. Therefore the form which renders $\mathrm{AE} \times \mathrm{EC}$ a maximum feems to be that which has the greateft ftrength. But AC: $A E=E C: E G$, and $E G=\frac{A E \cdot E C}{A C}$, and is therefore proportional to AE.EC. Now EG is a maximum when $B$ is in $F$, and a Gquare pitch is in this refpect the ftrongea. But it is very doubtful whether this conItruction is deduced from juft princip'cs. There is another ftrain to which the leg AB is expofed, whisch is not taken into the account. This arifes from the curva. ture which it unavoidably acquires by the tranfverfe preflure of its load. In this itate it is preffed in its own dircction by the abutment and load of the other leg. The relation between this ftrain ard the reffatance of the piece is not very diffinctly known. Euler has given a differtation on this fubjict (which is of great importance, becaufe it affects pofts and pillars of all kinds; and it is very well known that a pof of ten feet long and fix inches fquare will bear with sreat Eafety a weight which would crulh a palt of the fame fantling and 20 feet long in a minute); but his determination has not been acquiciced in by the firf mathematicians. Now it is in relation to the fe two frains thrit the firength of the rafter floould be adjufted. The firmofs of the fipport given by the other leg is of no confequence, if its own Atrengtl; is inferior to the ftrain. The force which tends to crufh the leg $A B$, by compreffing it in its curved ftate, is to its weight as $A B$ to $J P D$, as is eafily feen by the compontion of forces; and its incurvation by this force has a relation to it, which is of intricale determination. It is contained in the properties demonftrated by Bernoulli of the elaftic curve. This determination aldo includes the relation between the ourvature and the length of the picce. But the whole of this feemingly firpple problem is of much more difficult inveitigation than Mr Niller was aware of ; and bis rules for the pitch of a rac , and $\mathrm{i}:$ : the fally of a dock gate, which depends on the fame principles, are of no value. Fie is, however, the fiff author who attemnted to folve cither of thele protion $\Leftrightarrow$ mechanical princi
ples fufceptibie of precife reafoning. Beidior's foin. tions, in his Architecture Hy'rauli, the, are below notice. Realons of economy have made carpenters prefer a low pitch; and although this does dimirath the fapport given by the oppolite leg faler than it increales the relative itrength of the other, this is not of rnaterial confequence, becaufe the firength remaining in the oppofite leg is ftill very great ; for the fupporting leg is acting againft compreffion, in which cafe it is vaftly ftronger than the fupported leg acting agzint a tranfveríe itrain.

But a roof of this fimplicity will not do in molt cafes. Thrust on There is no notice taken in its contruction of the thref the walls, which it exerts on the walls. Now this is the ftrain which is the moft hazardous of all. Our ordinary walls, inftead of being able to refitt any confiderable ftrain preffing them outwards, require, in general, fome ties to keep them on foot. When a perfon thinks of the thinnefs and height of the walls of even a ftrong houfe, he will be furprifed that they are not blown down by any ftrong puff of wind. A wall of three feet, thick, and 60 feet high, could not withftand a wind blowing at the rate of 30 feet per fecond (in which cafe it acts with a force conliderably exceeding two pounds on every fquare foot), if it were not ftiffened by crofs walls, joirts, and roof, which all help to tie tbe different parts of the building together.

A carpenter is therefore exceedingly careful to avoid how avoid. every horizontal thruft, or to oppofe them by othered. forces. And this introduces another effential part into the conftruction of a roof, namely the tie or bean A C, (fig. 14.), laid from wall to wall, binding the feet A Fig. i40 and C of the rafters together. This is the fole office of the beam; and it fhould be confidered in no other light than as a ftring to prevent ihe roof from pufling out the walls. It is indeed ufed for carrying the ceiling of the apartments under it; and it is even made to fupport a flooring. But, confidered as making part of a roof, it is merely a ftring; and the ftrain which it withftands tends to tear its parts afonder. It therefore accs with its whole abfolute force, and a very fmall fcantling would fuffice if we could contrive to faften it firmly enough to the foot of the rafter. If it is of oak, we may fafely fubject it to a ftrain of three tons for every fquare inch of its fection. And fir will fafely bear a ftrain of two tons for every fquare inch. But we are obliged to give the tie-beam mueh larger dimenfions, that we may be able to connect it with the foot of the rafter by a mortife and tenon. Iron fraps are alfe frequently added. By attending to this office of the tie-beam, the judicious carpenter is directed to the prones form of the mortife and tenon and of the ftrap. We thall confider both of thefe in a proper place, afier we become acquainted with. the rarious ftrains at the joints of a roof.
Thefe large dimenfions of the tie-beam allow us to load it with the ceilings without any riks, and even to: ly floors on it with moderation and caution. But when it has a great braring or fran, it is very apt to bend dounwards in the middle, or, as the uorkmen term it, to fivay or fwag; and it requires a fumport. The onefion is, where to find this fupport? What fixed puints can we find with which to connect the middie of tie cie-benm? Some ingenions carpente:: thought of f.fipending it-from the ridge by a piece of timber BD:7 (fig. I5.), called by our carpenters the king-p $\neq$. It Fig $1=$
munt be knowledged that there was great in genuily in this thougkt. I: was allo perfectly jut. For the weizet of tu:e rafiers DA, BC tends to make them tiy $0: 11$ ather ifot. I his is prevented by the tie-beam, a.d this excites a prôilure, by which they tend to com, ref's each other. Suppoe them without weig.t, and that a great-weight is laid on the ridge B. This can be fupporied only by the butting of the rafers in their own directions AB and CB , and the veight tends to comprels thern in the oppolite directions, and, through their intervention, to flretch the tie-beam. If neither the rafters $\mathrm{c}:$ : be compreficd, nor the tie beam flretched, it is plain that the triangle ABC mut tetain i.s flape, and that B becomes a fixec point, very proper to be wfed as a point of fufpention. To this point, therefore, is the tie-beam fufpended b: means of the kingpoiz. A common fetetator, unacquainted with carpentry, views it very differently, and the tie beam appears to bim to carry the roof. The king-polt appears a pillat relling on the beare, whereas it is really a tring ; and an iron-ind of one-fisteenth of the fize would have dase juit as well. The king poft is fumetimes mortiicd into the tie-berm, and pins pet through the joint, which gives it more the look of a pillar w.in the roof relting on it. This does well enough in many cafes. Dut the beit methot is to connect them by an iron ftrap, like a firrup, which is bolied at its upper ends into the King-poft, and paies ruti a the tie-beam. In this way a fpace is commonly left between the end of the kingpolt and the upper fide of the tie-beam. Here the beara plainly appears hanging in the firrup; and this metbod allows us to retiore the beam to an exact level, swhen it has fouk by the unavoidable compreffion or oti-s yielding of the parts. The holes in the fides of the iron frap are made oblong inftead of round; and the bolt which is dramn through all is made to taper on the under fide; fo that driving it farther draws the tie beam upwards. A notion of this may be formed by looking at fig. 16. which is a fection of the poit and Leam.

It requires cenfiderable attention, bowcver, to make this fufpenfion of the tie-beam fufficiently firm. The top of the king-poft is cut into the form of the archflone of a bridge, and the heads of the rafters are frimly mortifed into this projecting part. Thefe projections are called joggles, and $\underset{j}{ }$ e formed by working the king-poff out of a much latoer piece of timber, and cutting off the unneceffary wood frome the two fides; and, leat ail this ihould not be fufficient, it is ufual in great worl:s to add an iron plate or Irap of three tranchas, which are bolted into the heads of the kingpoft ard rafters.

The rafiers, though not fo long as the beam, feem to fland as much in need of fomething to prevent their bending, for they carry the weight of the covering.This cannot be done by fufpenfion, for we have wo fised Foin's ahove them : But we have now got a very firm point of fupport at the foot of the king-poft.- Braces, or Aruts. ED, FD, (hig. 17.), are put under the middle of the rafters, where thiv are flightly mortifed, and their lower ends are firmly mortiied into jogal-s formed on the foot of the king.poft. As thefe braces are very powerful in their refiftance to comprefion, and the kingpoft equally fo to refite extenfion, the points $\mathbf{E}$ and $\mathbf{F}$ mayy be confidered as fixed; and the rafters being thus
reduced to half ti.cir former length, have now four times their former relative 11 rength.

Roofs do not alway c sunit of two floping fides mect- - ${ }^{27}$ ing in a ridge. They have tometimes at that on the top, in thatw.ihs two floping lides. They are fometimes formed en a with a double tlope, and are called kirb or manfarderi.... roofs. '1hey fometimes have a valley in the moddle, and are then called MI rools. Such roofs retp iire a:10ther piece which may be called the tru/s-beam, beceu'd all fuch frames are called truler, prsbably from the French word trouffe, becaufe fuch roots are like portions of plain roots, trsuffés or thoztened.

A Hac-topped roof is thus conltructed. Suppole th: three raiters $\mathrm{AB}, \mathrm{BC}, \mathrm{CD}$ (fig. 18.) of which ABF . is. and $C D$ are equal, and $B C$ horizontal. It is plain that they will be in equilibriv, and the roof have no tenderacy to go to either fide. The tie bean AD withitands the horizontal thrults of tle whole frame, and the two rafters $A B$ and CD are each prefed in their own diredtions in conlequence of their buding with the midcle zafter or trufs-beam BC. It lies between ther. hike the heyfiove of an arch. They lean towards it, and it refts on them. The preflure which the tuls-bean and its load eacites on the two rafters is the very lame as if the rafters were produced till they meet in $G$, and a weight were laid on thele equal to that of BC and its load. If therefore the trufs-beam is of a fcantling fufficient forcarrying its own load, and withttanding the compretion from the two rafters, the roof will be equally ffrong, (while it keeps its fhape) as the plain roof $A G D$, furnifhed with king-poff and braces. We may conceive this another way. Suppofe a plain roof AGD, without braces to fupport the middle B and C of the rafters. Then let a beara BC be put in between the rafters, buting upon little notches cut in the rafters. It is evident that this mult prevent the rafters from bending downwards, becaule the points B and C cannot defcend, mo. ving round the centres A and D , without thontening the diffance BC between them. This cannot be without compreffing the beam BC. It is plain that BC may be wedged in, or wed ges driven in betwees its exas B and C and the notches in which it is lodged. Thele wedges may be driven in til they even force out the rafeers G $A$ and GD. Whenever t is happens, all LL . mutual preffure of the heads of theferafiers at $G$ is teke:? away, and the perts GB and GC may be cut away : the roof ALBCD will be as flrong as the reof ASD fur. nilhed with the king-poft and br:ces, becaufe the tru. . beam gives a fupport of the fame kind at B and C ... the brace would have done.

But this roof ABCD would lave no firmnefs : Anape. Any addition of weight 01 one fide would dse froy the equilibrium at the angle, would deprefs that angle, and caufe the oppofite one to rife. To give i fliffuefs, it mut either have ties or braces, or fomething partaking of the nature of both. The ufual method of framing is to make the heads of the rafters butt on the joggies of two fide pofts BE a:d CF, while the trufs-beam, or firut as it is gencrally termed by the carpenters, is mortifed fquare into the infide of tho heads. 'Tinc luwer ends $\mathcal{E}$ and F of the fide-pofts are connceted with the tie-beam either by mortifes or ftraps.

This confruction gives firmnefs to the flame; for the angle $B$ cannot deicend in confequence of any ins*

## $\left.\begin{array}{llllll}\mathrm{R} & 0 & 0 & 264\end{array}\right] \quad \mathrm{R} 0 \quad 0$

quality of preffure, withont forcing we other angle C to rife. This it cannot do, being beld down by the pof CF . And the fame conftruction fortifies the tiebeam, which is now fufpended at the points E and F from the points B and C , whofe firminefs we have jult now fhown.

But althongh this roof may be made abundantly firong, it is not quite fo ftrong as the plain roof AGD of the fame fantling. The compreflion which BC muft fuftain in order to give the fame fupport to the rafters at B and C that was given by braces properly placed, is confiderably greater than the comprefion of the braces. And this ftrain is an addition to the tranfverfe ftrain which BC gets from its own load. Alfo this form neceffarily expofes the tie-beam to crofs ftrains. If BE is mortifed into the tie-beam, then the firain which tends to deprefs the angle $A B C$ preffes on the tie-beam at E tranfverfely, while a contrary ftrain acts on F , pulling it upwards. Thefe ftrains however are fmall ; and this coilfiruction is frequently ufed, being fufceptible of fufficient frength, without much increale of the dimenfions of the timbers; and it has the great advantage of giving. free room in the garrets. Were it not for this, there is a much more perfect form reprefented in fig. 19. Here the two pofts BE, CF are united below. All tranfverfe action on the tie-beam is now entirely removed. We are almoft difpofed to fay that this is the ftrongeft roof of the fame width and flope: for if the iron flrap which conneds the pieces $\mathrm{BE}, \mathrm{CF}$ with the tie-beam have a large bolt G through it, confining it to one point of the beam, there are five points, A, B, C, D, G, which cannot change their places, and there is no tranfverfe ftrain in any of the connections.

When the dimenfions of the building are very great, fo that the pieces $\mathrm{AB}, \mathrm{BC}, \mathrm{CD}$, would be thought too weak for withifanding the crofs ftrains, braces may be added as is exprefied in fig. 18. by the dotted lines. The reader will obferve, that it is not meant to leave the top flat externally : it mult be raifed a little in the middle to fhoot off the rain. But this muft not be done by incurvating the beam BC. This would foon be crulhed, and fpring upvsards. The flopes muft be given by pieces of timber added above the frutting beam.

And thus we have completed a frame of a roof. It confifts of thefe principal members: The rafters, which are immediately loaded with the covering; the tie-beam, which withfands the horizontal thrult by which the roof tenàs to fly out below and pufh out the walls; the king-pofts, which hang from fixed points and ferve to uphold the tie-beam, and allo to afford other fixed points on which we may reft the braces which fupport the middle of the rafters; and laftly the trufs or frut-ting-beam, which ferves to give mutual abutment to the different parts which are at a diffance from each other. The rafters, braces, and truffes are expofed to compreffion, and muft therefore have not only cohefion but fliffnefs. For if they bend, the prodigious comprefions to which they are fubjected would quickly crufh them in this bended ftate. The tie.beams and king-pofts, if performing no other office but fupporting the roof, do not require ftiffnefs, and their places might be fupplied by ropes, or by rods of iron of one-tenth part of the fcetion that even the fmalleft
oak itretcher requires. Thefe members require no grealer dimenfions than what is neceflary for giving fufficient joints, and any more is a needlefs expence and load. All roofs, however complicated, confift of thefe effential parts, and if picces of timber are to be feen which perform none of thefe offices, they muft be pronounced ufelefs, and they are frequently hurful, by producing crofs frains in fome other piece. In a roof properly conftructed there fhould be no fuch ftrains. All the timbers, except thofe which immediately carry the covering, fhould be either pufthed or dramn in the direction of their length. And this is the rule by which a roof fhould always be examined.

Thefe efiential parts are fufceptible of numberlefs com-are fuffepbinations and varicties. But it is a prudent maxim to tible of make the confluction: as fimple, and confifting of as few numberters parts, as poffible. We are lefs expofed to the imperfec- combinations of workmanfhip, fuch as loofe joints, \&c. Another varieties. effential harm arifes from many pieces, by the compreffion and the flrinking of the timber in the crofs direction of the fibres. The effect of this is equivalent to the flortening of the piece which butts on the joint. This alters the proportions of the fides of the triangle on which the flape of the whole depends. Now in a roof fuch as fig. 18. there is twice as much of this as in the plain pent roof, becaufe there are two pofts. And when the direetion of the butting pieces is very oblique to the acion of the load, a fmall fhrinking permits a great change of fhape. Thus in a roof of what is called pediment pitch, whore the rafters make an angle of 30 degrees with the horizon, half an inch compreffion of the king. poft will produce a fagging of an inch, and occafion a great ftrain on the tie-beam if the pofts are mortifed into it. In fig. 2. of the roofs in the article Architecture, Plate LII. half an inch fhrinking of each of the two pofts will allow the middle to fagg above five inches. Fig. I. of the fame plate is faulty in this refpect, by cutting the frutting-beam in the middle. The ffrutting beam is thus fhortened by three flhrinkings, while there is but one to fhorten the rafters. The coniequence is, that the trufs which is included within the rafters will fag away from them, and then they muft bend in the middle till they again reft on this included trufs. This roof is, however, confructed on the whole on good principles, and we adduce it only to fhow the advantages of fimplicity. This cutting of the truffing beam is unavoidable, if we would preferve the king-poft. But we are in doubt whether the forvice performed by it in this cafe will balance the inconvenience. It is employed only to fupport the middle of the upper half of each rafter, which it does but imperfectly, becaufe the braces and frut mult be cut half through at their crofing: if thefe joints are made tight, as a workman would wifh to do, the fettling of the roof will caufe them to work on each other croflwife with infuperable torce, and will undoubtedly frrain thera exceedingly.
This method of including a truls within the rafters of a pent roof is a very confiderable addition to the art of carpentry. But to infure its full effect, it ftould al. ways be executed in the manner reprefented in fig. $I$. Plate LII. with butting rafters under the principal ones, butting on joggles in the heads of the pofts. Without this the flrut beam is lardiy of any fervice. We would therefore recommend fig. 20 . as a proper conftrultion of Fig. 20
a trities roof, and the king-poft which is placed in it may te cmploy-d to lupport the upper part of the rafters, and allo for preventilig the frut-beam from dending in their direation in confequence of its great compretion. It will alfo give a dulpenfion for the great burdens which are lumelimes neceflary in a theatre. The mechinery has no o:her firm puints to which it can be attached; and the potion of the fingle saftere whech ca:ry tho kny poft are out thort, and thenefore may be co. lideraily ioaded wath lafety.

We outerve in the drawings which we fometimes have of Chinefe buildings, that the truffing of roufs is underthod by thein. Lideed they mult be very experienced earpenters. We fee wooden buildings raw up to a great height, which can be lupported onty by fuch trufing. One of thefe is fletched in fig. 21. There are fome very excellent fpecimens to be feen in the buildings at $\mathrm{D}=\mathrm{pt}$ ford, belunging to the victuallingoffice, uisally called the Red Ho:fr, which were erected about the year ${ }_{17}-38$, and we believe are the performance of Mr James Arrow of the Board of Works, one of the mot intelligent artints in this kingdom.

## emarks

Remarks. Thes have we given an elementary, but a rational or addreflidtofcientific, account of this important part of the art of pract al carpenters. carpentry. It is fuch, that any pratitioner, with the trouale of a little reflestion, may alssys proceed with comidence, and withot refting any part of his pracice on the vague notions whic'. habit may bave given him of the llrength and fupporis of timbers, and of their manner of asting. That thefe frequently miflead, is proved by the mutual criticifms which are frequently puolitized by the rivals in the profeffiun. They have frequently fagacity enough (for it feldom can be called fcience) to point out garing blunders; and any perfon who will look ai fome of the performances of Mr Piice, Mr Wyatt, Mr Astow, and others of acknowledged reputation, will reacily fee ther difinguifhable from the works of inferior artifts by fimplicity alone. A man withou: principles is apt to confider an intricate conffructionas ingenious and effectual; and fuch roofs fometimes fail nerely by being ingenioufly loaded uith timber, but more frequently filil by the wrong action of fome Lelef, iece, which produces frains that are tranfverfe to other pieces, or which, by rendering fome points two firm, caulic them to be deferted by the reft in the general fusfiding of the whole. I:aftances of this kind are pointed out by Price in his Batifh Carpenter. Nothing B. ws the fill of a carpenter more than the dilfinctuefs wit which be can forefee the changes of Thape which mult takc place in a fhort time in every roof. A knowlefge of this will often correct a conftrution which the mere mathematician thinks unexceptionable, becaufe he does not reckion on the actual compreffion which muft obiain, and imagines that his triangles, which fufain no crofs frains, inv riably retain their fhape till the pieces brtak. The fagecity of the experienced carpenter is not, however, enough without fience for perfeting the art. But when he knows how much a particular piece will yield to compreflion in one cafe, fcience wi:ll tell him, and nothing but feience can do it, what will be the compreffin of the fame piece in another very different cafe. Thus he learns how far it will now yie!d, and then he proportious the parts fo to each other, that when all have yielded accordin, their Arains, the whole is of the fhape he wihed to produce, and cvery joint is in Vol. XVIII. Pati I.
a flate of firmnefs. It is here that we obferve the greatelt number of improprieties. The iron Atraps are trequently in pufiuons not fiuted to the actual ftrain on them, and thiey are in a Rate of violent twif, which both tends ftrongly to break the ftrap, and to cripple the pieces which they furreund.
In like mamer, we frequently fee joints or mortifes in a llate of violent frrain ous the terion, or on the heels and frouldess. 'I ke joints were perh. ps properly Alaped for the pr mitive furm of the truls; but by its Etling, the bearing of the puth is changed: the brace, for example, in a very low pitched roof, comes to prefs with the upper part of the f.culder, ard, acting as a powerful lever on the tenon, breaks it. In iike manmer, the lower end of the brace, wh ich at frrf buted firmly and fquarely on the jogsle of the king pof, now prefles with one comer in prodigious force, and feldom fails to fiplinter off on that fide. Whe cannot help recommending a maxin of Mr Perronet the celebrated hydraulic architect of France, as a golden rule, viz. io make all the ly oulders of butting pieces in the form of an arch of a circle, having the oppoffee end of the piece for its centre. Thus, in fig. 18. if the jogcke-juint B Le of this form, having A for its centre, the laceging of the roof will mak no partial hearing at the joint ; for isi the iading of tle roof, the piece $A B$ turns or bends reund the centre $A$, and the $c$...nter preflure of the jogule is ftill direcled to A , as it eught to be. The have jut noss faid lerds round A. This is too frequently the cafe, and it is always very diflicult to give the tenon and mortife in this pluce a true and invariable bearing. The rafter puffes in the direction B.1, and the beam refifts in the direatorn AD . The abutment flould be perpendicular to neither of thefe but in an intermediate direction, and it ousht alfo to be of a cur$\mathbf{v c d}$ fhape. But the carpenters perhaps think that this would weaken the beam too much to give it this Ghape in the thoulder; they do rot even aim at it in the hecl of the tenon. The कhoulder is commonly even with the furfuce of the Leam. When the bearing therefore is on this floulder, it caufcs the foot of the rafter to flide along the bearn till the heel of the tenon bears again the outer an the mortife (Sce Price's Britifh Carpenter, Plate C. fig. IK). This abutment is perpendicular to the beam in Price's book, but it is more generally pointed a little outwards below, to make it roore fecure againft ftarting. The conferuence of this confruction is, that when the rof fettics, the fhoulder comes to bear at the inner end of the mortife, and it riles at the outer, and the tenon taking hold of the wood beyond it, cither tcars it out or is itfelf brok . This joint therefore is feldam trutted to the ftrength of the mortife and tenon, and is ufually fecured by an iron ftrap, which lies obligurely to the beam, to which it is bolted by a large bolt guite drough, and then embraces the outfide of the rafter foot. Very frequently this ftrap is not mace fufficiently oblique, and we have feen fome made almoff fquare with the beam. When th is is the cafe, it not only liceps the foot of the rafter from flying out, but it binds it down. In this cafe, the rafter a@̂s as a powerful lever, whofe fulcrum is in the inner angle of the fhoulder, and then the ftrsp. never fails to cripple the rafter at the pnint. All this ean be preverted only by making the ftrap very long and very oblique, and by making its outcr end (the
firiop

## $R \quad 0 \quad[266] \quad$ R $0 \quad 0$

Hforf. Alirrup part) fquare with its Iength, and making a notch in the rafter foot to rcceive it. It cannot now cripple the rafter, for it will rife along with it, turning round the bolt at its inner end. We have been thus particular on this joint, becaufe it is here that the ultimate ftrain of the whole roof is exerted, and its fituation will not allow the excavation neceflary for making it a good mortife and tenon.

Similar attention mult be paid to fome other ftraps, fuch as thofe which embrace the middle of the rafier, and connect it with the poft or trufs below it. We muft attend to the change of fhape produced by the fagging of the roof, and place the ftrap in fuch a manner as to yield to it by turning round its bolt, but fo as not to become loofe, and far lefs to make a fulcrum for any thing acting as a levcr. The ftrains arifing from fuch actions, in framings of carpentry which change their fhape by fagging, are enormous, and nothing can refift them.
We fhall clofe this part of the fubject with a fimple method, by which any carpenter, without mathematical fcience, may calculate with fufficient precifion the ftrains or thrufts which are produced on any point of his work, whatever be the obliquity of the pieces.

Let it be required to find the horizontal thruft acting on the tie-beam AD of Gig. 18. This will be the fame as if the weight of the whole roof were laid at G on the two rafters GA and GD. Draw the vertical line GH. Then, having calculated the weight of the whole roof that is fupported by this fingle frame ABCD , including the weight of the pieces $\mathrm{AB}, \mathrm{BC}$, $\mathrm{CD}, \mathrm{BE}, \mathrm{CF}$ themillves, take the number of pounds, tons, \&cc. which expreffes it from any fcale of equal parts, and fet it from G to H. Draw HK, HL parallel to GD, GA, and draw the line KL, which will be horizontal when the two fides of the roof have the fame flope. Then ML meafured on the fame fcale will give the horizontal thruf, by which the ftrength of the tie-beam is to be regulated. GL will give the thruit which tends to crufh the rafters, and LM will alfo give the force which tends to crufh the frut-beam BC.

In like manner, to find the ftrain of the king-pott BD of fig. ${ }^{17}$. confider that each.brace is preffed by half the weight of the roofing laid on B.A or BC, and this preflure, or at leaft its hurtful effect, is diminifhed in the proportion of BA to DA, becaufe the action of gravity is vertical, and the effect which we want to counteract by the braces is in a direction Ee perpendicular to BA or BC. But as this is to be refifted by the brace $f \mathrm{E}$ acting in the direction $f \mathrm{E}$, we mult draw $f e$ perpendicular to $\mathrm{E} e$, and fuppole the ftrain augmented in the proportion of $\mathrm{E} e$ to $\mathrm{E} f$.

Having thus obtaired in tons, pounds, or other meafures, the flrains which muft be balauced at $f$ by the cohefion of the king poft, take this meafure from the fcale of cqual parts, and fet it off in the directions of the braces to G and H , and complete the parallclogram G $f \mathrm{HK}$; and $f \mathrm{~K}$ meafured on the fame fale will be the P trein on the king-pof.

The artif may thein camine the ftength of his trufs uron this princi le, tiat every $f_{7}$-are inch of oak will bear at an averase 7000 pounds comprefing or fretching it, and my be fafcly loaded with 3500 for
any length of time; and that a fquare inch of fir will Roof. in like manner fecurely bear 2500 . And, becaufe itraps are ufed to relift fome of thefe ftrains, a fquare inch of well wrought tough iron may be fafely ftrained by 50,000 pounds. But the artilt will always recollect, that we cannot have the fame confidence in iron as in timber. The faults of this laft are much more eafily perceived; and when timber is too weak, it gives us warning of its failure, by yielding fenfibly before it breaks. This is not the cafe with iron; and much of its fervice depends on the honefty of the blackfinith.

In this way may any defign of a roof be examined. sketch of We fhall here give the reader a fletch of two or three fome truffed truffed roofs, which have been executed in the chiefroofs, \&ic. varieties of circumftances which occur in common practice.
Fig. 22. is the roof of St Paul's Church, Covent Gar- Fig. 22. den, London, the work of Inigo Jones. Its conftruction is fingular. The roof extends to a confiderable diftance beyond the building, and the ends of the tie.beams fupport the Tufcan corniche, appearing like the mutules of the Doric order. Such a roof could not reft on the tie-beam. Inigo Jones has therefore fupported it by a trufs below it ; and the height has allowed him to make this extremely ftrong with very little timber. It is accounted the highelt roof of its width in London. But this was not difficult, by reafon of the great height which its extreme widh allowed him to employ without hurting the beauty of it by too high a pitch. The fupports, however, are difpofed with judgement (A).
Fig. 23. is a kirb or manfard roof by Price, and fup- Fig. 23. pofed to be of large dimenfions, having braces to carry the middle of the rafters.
It will ferve exceedingly well for a church having pillars. The middle part of the tie-beam being taken away, the ftrains are very well balanced, fo that there is no rifk of its pufling afide the pillar on which it refts.

Fig. 24. is the celebrated roof of the theatre of the Fig. 24. univerfity of Oxford, by Sir Chriftopher Wren. The fpan betreen the walls is 75 feet. This is accounted a very ingenious, and is a fingular performance. The middle part of it is almoft unchangeable in its form ; but from this circumfance it does not diftribute the horizontal thruft with the fame regularity as the ufual conftruction. The horizontal thruft on the tie-beam is about twice the weight of the roof, and is withfood by an iron ftrap below the beam, which fretches the whole width of the building in the form of a ropc, making part of the ornament of the ceiling.

In all the roofs which we have confidered hitherto, Cares in the thruff is difcharged entirely from the walls by the wates in tie-beam. But this cannot always be done. We fre-thruft canquently want great elevation within, and arched ceil- not be dif ings. In fuch cafes, it is a much more difficult matter charged to keep the walls free of all preflure outwards, and from the the there are few buildings where it is completely done. tic. bcam.' Yet this is the greateft fault of a roof. We flaall juft point out the methods which may be moft fuccerffully adopted.

We have faid that a tie-beam juft performs the office of a flring. We have faid the lame of the king poft.

## R O P

Rcof. Now fuppofe two rafters AB, BC (fig. 25.) moveable Fig. 25 . about the point $B$, and relling on the top of the walls. If the line $B D$ be fufpended from $B$, and the two lines $\mathrm{DA}, \mathrm{DC}$ be fatened to the feet of the rafters, and if thefe lines be incapable of extenfion, it is plain that atl thuit is removed from the walls as effectually as by a common tie-beam. And by thortening BD to $\mathrm{B} \dot{d}$, we gain a greater infide height, and more room for an arched cciling. Norr if we fubititute a king.poft BD (fig. 26.) and two ftretchers or hammer-beams DA, DC for the other iftrings, and comnect them firmly by means of iron ftraps, we obtain our purpofe.

Let us compare this roof with a tie-beam roof in point of Arain and Arength. Recur to fig. 25. and complete the parallelogram $A B C F$, and draw the diagonals $\mathrm{AC}, \mathrm{BF}$ croffing in E. Draw BG perpendicular to CD. We have feen that the weight of the roof (which we may call W ) is to the horizontal thruft at C as BF to EC; and if we exprefs this thruft by $T$, we have $T=\frac{V \mathrm{~V} \times E C}{B F}$. We may at prefont confider $B C$ as a lever moveable round the joint $B$, and pulled at C in the direction EC by the hor zontal thruft, and held $b$ ck by the ftring pulling in the direction CD. Suppofe that the forces in the directions EC and CD are in equilibrio, and let us find the force S by which the ffring CD is itrained. Thefe forces muit (by the property of the lever) be inverfely as the perpendiculars draven from the centre of motion on the lines of their direction. Therefore $\mathrm{BG}: \mathrm{BE}=\mathrm{T}: \mathrm{S}$, and $S=T \times \frac{B E}{B G},=W \times \frac{B E \cdot E C}{B F \cdot B G}$.

Therefore the frain upon each of the ties DA and $D C$ is always greater than the horizontal thruff or the firain on a fimple tie beam. This would be no great inconvenience, becaufe the fmallell dimenfions that we could give to thefe ties, fo as to procure fufficient fixtures to the adjoining pieces, are always filfficient to withfland this tirsin. But although the fame may be faid of the iron litraps which make the ultimate connections, there is always fome hazard of imperfect work, cracks, or flaws, which are not perceived. We can judge with tolerabie certainty of the foundnefs of a piece of timber, but cannot fay fo much of a piece of iron. Moreover, there is a prodigious tirain excited on the king-poft, when BG is very flort in omparifon of BE, namely, the force comnounded of the two ftrains S and S on the ties DA and DC.

But there is ano:her defect from which the frainht tie heam is entirely free. All roofs fettle a lintle.When this roof fectles, and the paints B and D de fend, the legs B A , BC munt fpread further out, and thus a preffure outwar's is excited on the walls. It is feldom therefore that this kind of roof can be exeectied in this fimple form, and other contrivances are necef: ry for counteracting this fupervening action on the wolls.
Fig. 27. Fig. 27. is one of the beft which we have feen. a d is executed with great fuccefs in the circus or equeftrian theatre (now, 1809, a concert room) in Edinhurgh, the width heing 60 feet. The pieces EF and E1) hel, to take .ff fome of the weight, and by their greater in rightnefs they esert a fmalier thruft on the walls. The beam $\mathrm{D} d$ is alfo a fort of trufs-ieam, having fomething of the fame effect. Mr Price has given another very
judicius one of tis kind, Britih Carpenter, P'ate IK, fig. C, from which the tic-beam may be talien away, and there will remain very little thrult on the wals. Mloufe which he has given in the following Plate K are, in our opinion, very frulty. The whole flrain in thefe laft roofs tends to break the rafters a d ties tranfve rfly, and the fixtures of the ties are al o not well calcelated to refift the ftrain to which the pieces are ex ofed. We hardly thirik that thefe roofs could be executed.

It is fcarcely neceflary to remind the reader, that in General oball that we have deliver $d$ on this fo joct, wo lizve at- 1 watatum. tended only to the conilruction of the principal safters or trufles. In fmall buildings all the raiters are of one kind ; but in great buildings the whole weight of the covering is made to reft on a few principal rafters, which are connected by beams placed horizontally, and either mortifd into them or fearfed on them. Thefe are called purlins. Small rafters are laid from purlin to purlin; and on thefe the laths for tiles, or the © $\mathbb{E}$ ingboards for flates, are nailed. Thus the covering dues not inumediaiely reft on the principal frames. This allows fome more liberty in thicir conflruation, becaufe the garrets can be fo divided that the principal rafiers fhall be in the partitions and the reff left unencumbered. This conftruction is fo far anal gous to that of floors which are conffructed with girders, binding, and bridgeing joits.

It may appear prefuming in us to queftion the propricty of this practice. There are fituations in which it is unavoidable, as in the roofs of churches, which can be allowed to reft on fome pillars. In other fituations, where partition-walls intervene at a diftance not too great for a ftout purlin, no principal rafters are neceffary, and the whole may be roofed with fhort rafters of very flender fcantling: But in a great uniform roof, which has no intermediate fupports, it requires at leaf fome reafons for preferring this method of carcafe rocfing to the fimple method of making all the rafiers alike. The method of carcale-roofing requires the felection of the greateft logs of imber, which are icidom of equal ftrengith and foundnefs with thinner rafters. In thefe the outfice plaiks can be taken off, and the beft past alone workcd up. It alfo expofes to all the difects of workmanftip in the mortifing of purline, and the weakening of the rafers by this very mortifing; and it brinys an additior al load of Furlins and fhort rafters. A roof thus conftructed may furely be comnared with a floor of fimilar confiruct: in. Here there is not a thodow of doubt, that if the girders were faved into lanke, and thefe planks laid as joifs fufficiently near for carrying the flooing boards, the: mill have the fime flren thi ns before, cicept for mich as is taken out of the tirl er by thic fars. This rith not am unt to one teri ho art of tic timber in the bi ding, bridging, and ceiln, f if . wl ich are an additional ad; and all the morifes end oth r i i. it as are fo many dimi u ions of the flrengit of the pi e e; and as ro lart of a c.rnenter's work riquises nitye akill and ceuracy of e.wation, e eare crnofed to m ns chances of imperfe efim. Put, not to rell on thefe confiderations, however reafonatle they may apnear, we fhall relhte an experiment mad, hy one on whofe judgment and exactnefs we $e=1$ denend.
 the fineft uniform deal, which tad bien long feafoned, mexit.

## ROO [ 0258 [ ROO O

Rooi. The one confifted of fimple joifts, and the other was framed with gitders, binding, bridging, and ceiling juils. The plain joills of the one contaned the fame quantity of timber with the girders alone of the other, and both were made by a moft accurate workman. They were placed in wooden trunks 18 inches fquare within, and reiked on a ftrong projection on the infide. Small thot was gradually poured in upon the floors, fo as to fpread uniformly over them. The plain joifted floor broke down with 487 pounds, and the carcafe floor with 327 . The firf broke without giving any warning; the other gave a violent crack when 294 pounds had been poured in.

A trial had been made before, and the loads were 34.5 and 482 . But the models having been made by a lels accurate hand, it was not thought a fair feecimen of the ftrength which might be given to a carcafe floor.

The only argument of weight which we can recollect in favour of the compound comftuction of roofs is, that the plain method would prodigioufly increafe the quantity of work, would admit nothing but long timber, which would greatly add to the expence, and would make the garrets a mere thicket of planks. We admit this in its full force; but we continue to be of the opinion that plain roofs are greatly fuperior in point of ftrength, and therefore fhould be adopted in cafes where the great difficulty is to infure this neceflary circumftance.
It would appear very negleefful to omit an account of the roofs fut on round buildings, fuch as domes, cupolas, and the like. They appear to be the moft difficult tafks in the carpenter art. But the difficulty lies entircly in the mode of framing, or what the French call the trait de charpenterie. The riew which we are taking of the fubject, as a part of mechanical fcience, has little connection with this. It is plain, that whatever form of a truls is excellent in a fquare building mut be equally fo as one of the frames of a round one; and the only difficulty is how to manage their nutual interfections at the top. Some of them muf be difcontinued before they reach that length, and common fenfe will teach us to cut them iliort alternately, and always leave as many, that they may fland equally thick as at their firt fpringing from the bafe of the dome. Thus the length of the purlins which reach from trufs to trufs will never be too great.

The truth is, that a round building which gathers in at top, like a glafs houfe, a potter's kiln, or a fpire fieeple, inftead of being the moit difficult to erect with frability, is of all others the eafieft. Nothing can fhow this more forcibly than daily practice, where they are run up without centres and without fcaffoldings; and it requires grofs blunders indeed in the choice of their outline to put them in much danger of falling from a want of equilibrium. In like manner, a dome of carpen ry can hardly fall, give it what flape or what conffruction you will. I cannot fall unlefs fome part of it flies out at the bottom: an iron hoop round it, or fraps at the join in s of the truffes and purline, which make an equiva'ent to a hoop, will effectually lecure it. And as beanty requires that a dome thall Spring almoft perpendicularly from the wall, it is evident that there is hardly any thruft to force out the walls. The only part where this is to be guarded againft is, where the tangent is inclined atout 40 or 50 degrees to the horizon.

Here it will be proper to make a conrfe of tirm hotizontal joinings.

We doubt not but that domes of carpentry will norv. be raifed of great extent, The Falle du Bled at Paris, of 200 feet in diameter, was the invention of an intelligent carpenter, the Sieur Moulineau. He was not by any means a man of fcience, but had much more mechanical knowledge than artifans ufually have, and was convinced that a very thin fhell of timber might not only be fo flaped as to benearly in equilibrio, but that if hooped or firmly connected horizontally, it would have all the Itiffnets that was neceflary; and he prefented his project to the magiftracy of Paris. The grandeur of it plealed them, but they doubted of its poffibility. Being a great public work, they prevailed on the Academy of Sciences to confider it. The members, who were competent judges, were inftantly ftruck with the jufneis of Mr Moulineau's principles, and aftonified that a thing fo plain had not been long familiar to every houfe carpenter. It quickly became an univerfal topic of converfation, difpute, and cabal, in the polite circles of Paris. But the Academy having given a very favourable report of their opinion, the project was immediately carried into execution, and foon completed; and now ftands as one of the great exhibitions of Paris.
The conftruction of this dome is the fimpleft thing that can be imagined. The circular ribs which compofe it confift of planks nine feet long, 13 inches broad. and three inches thick; and each rib conlifts of three of thefe planks bolied together in fuch a manner that two joints meet. A rib is begun, for inftance, with a plank of three feet long ftanding beiween one of fix fect and another of nine, and this is continued to the head of it. No machinery was ncceffary for carrying up fuch fmall pieces, and the whole went up like a pitce of bricklayer's work. At various diftances thefe ribs were connected horizontally by purlins and iron ftraps, which made fo many hoops to the whole. When the work had reached fuch a height, that the diftance of the ribs was two-thirds of the original diftance, every third rib was difcontinued, and the fpace was left open and glazed. When carried fo much higher that the diftance of the ribs is one-third of the original diftance, every fecond rib (now confifling of two ribs very near each other) is in like manner difcontinued, and the void is glazed. A little above this the heads of the ribs are framed into a circular ring of timber, which forms a wide opening in the middle; over which is a glazed canopy or umbrella, with an opening between it and the dome for allowing the heated air to get out. All who have feen this dome fay, that it is the moft beautiful and magnificent objeef they have ever belield.

The only difficulty which occurs in the confruction of wooden domes is, when they are unequally loaded, ly carrying a heavy lauthern or cupola in the middle. In fuch a cale, if the dome were a mere fhell, it would be cruthed in at the top, or the action, of the wind on the lanthern might tear it out of its place. Such a dome muit therefore confilt of truffed frames. Mr Price has given a very good one in his plate OP, though much fronger in the truffes than there was any occafion for. This caufes a great lofs of room, and throws the lights of the lanthern too far up. It is evidently copied from Sir Chritogher Wren's dome of

ROOFs

$53 i g .4$.


Fig. 8.
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Plate CCCCLJIH.
zig 3.


Fig. 13

57.14.




Sig. ${ }^{G} / 8$


Fig. 16


Fig. 19.

-Fig. Bn



Roof. St Paul's church in London ; a mocel of propricty in its particular fituation, but by no means a gemeral model of a wooden dome. It reffs on the brick cane within it; and Sir Chrillopher has very inge icufly made ufe of it for flifening this cone, as any intelligent perfon will perceive by attending to its conflruction (Sce Price, Plate ( OH ).

Fig. 28 . reprefents a dome executed in the Regifter Office in Edinburgh by James and Fobert Adas, and is very agreeable to me chanical principlts. The fpan is 50 feet clear, and the thicknefs is on!y $4 \frac{1}{2}$.

We cannot take leave of the fubject without taking fome notice of what we have already \{poken of with commendation by the name of Norman roofs. We called them Norman, becaufe they were frequently executed by that people foon after their ettablifmment in Italy and other parts of the fouth of Europe, and became the prevailing tafte in all the great baronial contles. Their architects were rivals to the Saracens and Moors, who aboxt that time built many Chrittian churches; and the architecture which we now call Gothic feems to have ariten from their joint labours.

The principle of a Norman roof is extremely fimple. The rafters all butted on joggled king-pofts AF, BG, CH , \&c. (fig. 29.), and braces or ties were then difpofed in the interyals. In the middle of the roof HB and HD are evidently ties in a fate of extenfion, while the poft CH is compreffed by them. Towards the walls on each fide, as between B and F , and betwcen F and L, they are braces, and are compreffed. The ends of the poffs were generally ornamented with Rnots of flowers, emboffed globes, and the like, and the whole texture of the truis was exhibited and drefied out.

This confruction admits of employing very fhort timbers; and this very circumfance gives greater itrength to the trufs, becaufe the angle which the brace or tie makes with the rafter is more open. We may alfo perceive that all thruft may be taken of the walls. If the pieces AF, BF, LF, be removed, all the remaining diagonal pieces act as ties, and the pieces directed to the centre att as firuts; and it may alfo be obferved, that the principle will apply equally to a ftraight or flat roof or to a floor. A floor fuch as $a b c$, having the joint in two pieces a $b, b c$, with a ftrut $b d$, and two ties, will require a much greater weight to break th than if it had a continued joint ac \&f the fame fantling. And, lafly, a piece of timber acting as a tie is much ftronger than the fame piece acting as a frut: fcr in the latter fituation it is expofed to bending, and when bent it is much lefs able to withfland a very great ftrain. It muft be acknowledged, however, that this advantage is balanced by the great inferiority of the joints in point of firength. The joint of a tie depends wholly on the pins; for this reafon ties are never ufed in heavy works without frapping the joints with iron. In the roofs we are now deferibing the diagonal pieces of the middle part only act purely as ties, while thofe towards the fides act as ftruts or braces. Indeed they are feldom of fo very fimple conftruction as we have defcribed, and are more generally conftructed like the Iketch in fig. 30. having two fets of rafters $\mathrm{AB}, a b$, and the angles are filled up with thin planks, which give great ftiffnefs and frength. They have allo a double
fet of pu.... , whilli cornect the different trufies. The ronf being thus divided into fquares, other purlins run between the middie pointe E uf the raficrs. 7le rafter is fupported at I: by a clecek put between it and the under ratier. The middle point of each tatare of the roof is fupported and diffetied by four braces, one of which fpiitios from $c$, and its oppofite from the finitiar part of the adjoining tri:Ss. The other two braces fpring fiom the middle points of the lower purlins, which go horizontally from $a$ and $\%$ to the next truls, and are fur orted by planks in the ame manner as the rafters. By this contrivance the whole becomes very ftiff and trong.

We liope that the reader will not be difpleafed with conclution, our having taken fome notice of what was the pride of our anceftors, and conftituted a great part of the finery of the grand hall, where the feudal lord aftembled his valfals and difplayed his magnificence. The intelligent mechanic will fee much to commend ; and all who look at thefe roofs admire their apparent flimily lightnefs, and wonder at their duration. We have feen a hall of 57 feet wide, the roof which was in four divifions, like a kirb roof, and the truffes were about io feet afunder. They were fingle rafters, as in fis. 30 , and their dimenfions were only eight inches by fix. The roof appeared perfectly found, and had been ftanding ever fince the year 1425 .

Much of what has been faid on this fubject may be applied to the conflruction of wooden bridges and the centres for turning the arches of ftone-bridges. But the farther difcuffion of this muit be the employment of another article.

ROOFING, the materials of which the roof of a houfe is compofed. See the foregoing article.

ROOK. See Corvus, Orxithology Inder.
Rooks are very deftructive of corn, efpecially of wheat. They fearch out the lands where it is fown, and watching them more carefully than the owners, they perceive when the feed firft begins to floot up its blade; this is the time of their feeding on it. They will not be at the pains of fearching for it at random in the fown land, for that is more trouble than fo frall a grain will requite them for: but as foon as thefe hlades appear, they are by them dirceted, withust lufs of time or pairs, to the places where the grains lie; and in three or four days time they will root up fuch vait quantitics, that a good crep is often thus deftroyed in embryo. After a few days the wheat continuing to grow, its blades appear green above ground; and then the time of danger from thefe birds is over ; for then the feeds are fo far robhed of their mealy matter, that they are of no value to that bird, and it will no longer give i:Celf the trouble to deftroy them.

Wheat that is form fo early as to fioot up its green blades before the harveft is all carried in, is in no danger from thefe birds; becaufe while it is in a fate worth their fearching for, the fcattered corn in the harveft fields is eafier come at, and they feed wholly on this, neglecting the fown grain. But as this cannot always be done, the farmers, to drive away thefe ravenour and mifchievous birds, dig hules in the ground and flick up the feathers of rooks in them, and hang up dead rooks on flicks in feveral parts of the fields: but all this is of very little ufe; for the living rooks will tear up the ground about the feathers, and under the dead
of the next year, he was admiral of the white ; and was alfo appuinted admiral aad commander in chief in the Mediceranean.

During King William's reign, Sir George was twice elected member for Portfmouth; and upon the acceffion of Queen Anne in 1702, he was conttituted viceadmiral and lieutenant of the admiralty of Eugland, as alfo lieutenant of the fleets and feas of this kingdom. Upen the declaration of war againt France, he was ordered to command a fleet fent againft Cadiz, the duke of Ormond having the command of the land forces. On his paflage home, receiving an account that the galleons, under the efcort of a itrong French fquadron, were got into the harbour of Vigo, he refolved to attack them; and on the ith of October came before the harbour of Rondondeilo, where the French commander had neglected nothing neceflary for putting the place into the beft poflure of defence. But notwithftanding this, a detachment of 15 Englifh and 10 Dutch men of war, of the line of battle, with all the fire-fhips, were ordered in; the frigates and bomb-veffels followed; the great fhips moved after them, and the army landed near Rondondello. The whole fervice was performed under Sir George's dircetions, with admirable conduct and bravery; for, in fhort, all the fhips were deftroyed or taken, prodigious damage done to the enemy, and $v_{a}$ ft wealth acquired by the allies. For this action Sir George received the tharks of the Houfe of Commons, a day of thankfgiving was appointed both by the queen and the fta:es-general, and Sir George was appointed to a feat in the privy-council; yet, notwithftanding this, the Hnufe of Lords refolved to inquire snto his conduct at Cadiz. But he fo fully juftified himfelf, that a vote was pafled, approving his behaviour.

In the fpring of the year 1704, Sir George command. ed the hips of war thich co voyed King Charles 1II. of Spain to Lifon. In July, he attacked Gibraliar; when, by the bravery of the Encliih feamen, the place was taken on the $24^{\text {th }}$, though the town was extremely firong, well furnifhed with ammunition, and had 100 guns mounted, all facing the fea and the narrow paffes to the land: An action which was conceived and executed in lefs than a week; though it has fince endured fieges of many months continuance, and more than once baffled the united forces of France and Spain. This brave officer being at laft obliged, by the prevalence of partyfpirit, to quit the fervice of his country, retired to his feat in Kent; where he fpent the remainder of his days as a private gentleman.

He was thrice married; and by his fecond lady Mrs Lattrell left one fon. H. died January 24. ${ }^{1708} 9$-9, in his 58 th year, and was buried in Canterbury cathedral, where a monument is erected to his memory. In his private life he was a goo 1 hufand and a kind mafter, lived hofpitably towards his neighbours, and left behind him a moderate fortune; fo moderate, that when be came to make his will, it fur rifed thofe who were pref nt : but Sir Gerrge affioned the reafon in a few words, " I do not leave much (fait he), but what I leave was honefl'v gotten; it never coft a failor a tear, or the nation a farthing."

RO) M. chamber, parlour, or other apartment in a houfe. See Arghitfoture and Vinfilaton.

13OOT, among botanifts, denotes that part of a plant
enes, to fteal the leeds. A much setter way than eiis tear feveral rooks to pieces, and to feat p.ecer the fiele's; but turs latts but a little white, for the kites and other birds of prey foon carry off the pieces and feed upon them. A gun is a good remedy whie the perton who has it is prelent; but as loon as he is gone, they will return with redoubled vigotr to the field and tear up every thing before them.

The beft remedy the farmer has is to watch well the time of the corn's being in the condition in which they feed upon it ; and as this lafts only a few days, he thould keep a boy in contlant pay to watch the field from daybreak till the dufk of the evening. Every time they fettle upon the ground to fly over it, the boy is to holloa, and throw up a dead rook into the air: this will always make them rife; and by degrees they will be fo tired of this corftant difturbance, that they will feek out other places of preying, and will leave the ground even before the time of the corn's being unfit for them. The reafon of their rifing at the toffing up of their dead fellow creature is, that they are a bird extremely apprehenfive of danger, and they are always alarmed when one of their comrades rifes. They take this for the rifing of an out-bird, and all fly off at the fignal.

ROOKE, Sir George, a gallant naval commander, born of an ancient and honourable family in Kent, in 1650. His merit raifed him by regular fteps to be vice admiral of the blue: in which flation he ferved in the battle of La Hogue, on the 22d of May ${ }^{1692}$; when it was owing to his vigorous behaviour, that the laft itroke was given on that important day, which threw the French entirely into confufion. But the next day he obtained ftill more glory; for he had orders to go into La IIogue, and burn the enemy's thips as they lay there. There were 13 large men of war, which had crowded as far up as poffible; and the tranfports, tenders and ammunition fhips, were difpofed in fuch a manner that it was thought impoffible to burn them. Beficics, the French camp was in light, with all the French and Jrifh troops that were to have been employed in the invation of England; and feveral batteries were raifed on the coaft, well provided with heavy artillery. The vice-admiral made the neceflary preparations for oheying his orders, but found it impoffible to carry in the flips of his fquadron: he therefore ordered his light fricates to ply in clofe to the fhore; and having manred out all his coats, went himfelf to give dinections for the attack, burnt that very night fix three-deck-nlins, and the next day fix moie, from 76 to 60 guns, ingether with moft of the tranfforts and ammunition veffels; and this under the fire of all the batteries juft menti net, and in fight of all the French and Itilh tronns: yet this bold action coft the lives of no more than ten men. The vice-n Imirnl's behaviour on this ocesfion anpeared fo great to King William, that hasing no onnorturity at that time of promoting him, he fettl d a renfion of $100-1$. er annum on him for lire; and afierwards oring to Porlfmouth to view the fleet, went on thard Mr Ronke's Mip, dined with him, and then conrerred on him the hon ur of knighthood, he having a little before made him vicc-admiral of the red.

In confoquence of other 「ervices be was in 1694 rai: 1 to the rank of admiral of the blue: towards the clofe

## $\mathrm{R} O \mathrm{P} \quad\left[\begin{array}{lll}271\end{array}\right] \quad \mathrm{R} O \quad \mathrm{P}$

Rout II Rope.
plant which imbibes the nutritious juices of the earth, and tranfmits them to the other parts. See Pling and Radiz.

Colour extralted from Roors. See CoLour-Making $\mathrm{N}^{\mathrm{o}} \mathrm{II}^{\text {. }}$

Root, in Algebre and Arithmetic, denotes any number which, multiplied by itfelf once or oftener, produces any other number; and is called the fquare, cube, biquadrate, \&c. root, according to the number of multiplications. Thus, 2 is the fquare of 4 ; the cube-root of 8 ; the biquadrate root of $16, \& c$.

Root of an equation, denotes the value of the unknown quantity in an equation, which is fuch a quantity, as being fubitituted inftead of that unknown letter, into the equation, fhall make all the terms to vanifh, or both fides equal to each other. Thus, of the equation $3^{x}+5=14$, the root or value of $x$ is 3 , becaufe fubfituting 3 for $x$ makes it become $9+5=14$.

Rooxs, real and imaginary. The odd roots, as the $3 \mathrm{~d}, 5$ th, 7 th, \&c. of all real quantities, whether pofitive or negative, are real, and are refpectively pofitive or negative. So the cube root of $a^{3}$ is $a$, and of $-a^{3}$ is $-a$, But the even roots, as the $2 \mathrm{~d}, 4^{\text {th }}, 6$ th, \& c. are only real when the quantity is pofitive, being imaginary or impofible when the quantity is negative. So the fquare root of $a^{2}$ is $a$, which is real ; but the fquare root of - $a^{2}$, that is, $\sqrt{ }-a^{2}$, is imaginary or impoffible, becaufe there is no quantity, neither $+a$ nor $-a$, which by fquaring will make the given negative fquare $-a^{3}$.

ROPE, is a word too familiar to necd a definition; and we need fay no more than that it is only applied to a confiderable collection of twifted fibres. Smaller bands are called lines, frings, cords; and it is not applied with great propriety even to thofe, unlefs they are compofed of fmaller things of the fame kind twifted together. Two hay bands twifted together would be called a rope. All the different kinds of this manufacture, from a fifhing-line or whip-cord to the cable of a firft-rate fhip of war, go by the general name of Cordage.
Ropes are made of every fubflance that is fufficiently fibrous, flexible, and tenacious, but chiefly of the barks of plants. The Chinefe and other orientals even make them of the ligneous parts of fereral plants, fuch as certain bamboos and reeds, the ftems of the aloes, the fibrous covering of the cocoa nut, the filament of the cotton pod, and the leaves of fome graffes fuch as the fparte (Lygeam, Linn.) The aloe (Agave, Linn.) and the fparte exceed all others in ftrength. But the barks of plants are the moft productive of fibrous matter fit for this manufacture. Thofe of the linden tree (Tilia), of the willow, the bramble, the nettle, are frequently ufed : but hemp and flax are of all others the batt ; and of thefe the hemp is preferred, and employed in all cordage exceeding the fize of a line, and even in many of this denomination.
Hemp is very various in its ufeful qualities. Thefe are great frengith, and the length and finenels of the fibre. Being a plant of very greedy growth, it fucks ap much of the unaltered juices of the foil, and therefore differs greatly according to is foil, climate, and culture. The belt in Kurope comes to us threigh Riga, to which port it is brought from very dilant places to the fouthrard. It is known by the name of Riga rein (that is, clemu) hemp. Its fibre is yot the
longeft (at leaft in the dreffed fate in which we get it) of all others, but it is the finen, mon flexible, and ftrongelt. The next to this is fuppofed to be the Pe terfburgh braak hemp. Other hemps are efteened nearly in the following order:-Riga outfhot, Peterfburgh outhot, hemp from Koningßurg, Archangel, Sweden, Memel. Chucking is a name given to a hemp that comes from various places, long in the fibre, but coarfe and harih, and its ftrength is inferior to hemps which one would think weaker. Its texture is fuch, that it does not admit fplitting with the hatchet fo as to be more completely drefied. It is therefore $k / t$ in its coarle form, and ufed for inferior cordage. I: is, however, a good and ftrong hemp, but will not make fine work. There are doubtlefs many good hemps in the fouthern parts of Europe, but little of them is brought to our market. Codilla, half clean, Scc, are portions of the above-mentioned hemps, feparated by the drefling, and may be confidered as broken fibres of thofe hemps.

Only the firft qualities are manufactured for the rigging of the royal navy and for the Mips of the Eaft India company.

Rope$\underbrace{\text { making. }}$ Rope-makrsc is an art of very great importance, and Importance there are ferv that better deferve the attention of the in- of the art telligent obferver. Hardly any art can be carried on of ropewithout the affirtance of the rope-maker. Cordage making. makes the very finews and mufcles of a fhip; and every improvement which can be made in its preparation, either in refpect to itrength or pliablenefs, mult be of immenfe fervice to the mariner, and to the commerce and the defence of nations.

We fhall give a very fhort account of the manufacture, which will not indeed fully inftruct the artificers, but will give fuch a view of the procefs as thall enable the reader to judge, from principles, of the propriety of the different parts of the manipulation, and perceive its defeets, and the means for removing them.

The aim of the rope-maker is to unite the ftrength The aim of of a great number of fibres. This would be done in whis is to the completeft manner by laying the fibres parallel to urite the each other, and faftening the bundle at the two ends: An mimerous but this would be of very limited ufe, becaule the fi-fitres. bres are fhort, not exceeding three feet and a half at an average. They muft therefore be entangled toyecher, in fuch a manner that the ftrength of a fibre fhall not be able to draw it out from among the reff of the bundlc. This is done by twifling or twining them together, which cauf's them mutually to comprefs each other. When the fibres are fo difpofed in a long fikain, that their ends fucceed each other along its length, without many of them mecting in one place, and this fkain is twifted round and round, we may caufe them to comprefs each other to any degree we pleafe, and the friction on a fibre which we attempt to pull out may be more than its cohcfion or overcome. It will therefore break. Confequently, if we pull at this twilled fkain, we will not feparate it by drawing one parcel out from among the reft, but the whole fibrer will becak; and if the dilitriluthon of the fires has been very equ-ble, the $f k$ in will be nearly of the fime itrength in every pant. If there is any part where many ends of fibres mect, the thain. will break in that part.
We know very well that we can twit a f.in if Ebees fo very hard, that it will break with a a

## $\mathrm{R} 0 \mathrm{P} \quad\left[\begin{array}{lll}272\end{array}\right] \quad \mathrm{h} 0 \quad \mathrm{P}$

Pene- to in if it hatder. In this Nate ail the fibres ate almaking. $\xrightarrow{2}$ Thele fibiev may be is much twifted as to break with the leaft additional twit. ready ilrained to the utmolt of their frength. Such a iksin of fibres can lave no ttrength. It cannot carty a weight, becaule each fibre is already ftrained in the fame manner as if loaded with as much weight as it is able to bear. What we have faid of this extreme cafe is true in a certain extent of every degree of twift that we give the fibres. Whatever force is actually exerted by a tisifted fibre, in order that it may fufficiently compref's the reft to hinder them from being drawn out, muft be
$\stackrel{4}{4}$
Practica:
inference.

5
Method to

## be obferved

 in twifting the fibres.6 Spinning of ropeyarns. confidered as a weight hanging on that fiore, and muft be deduced from its abfolute itength of cohefion, before we can eftimate the ftrength of the $\mathbb{R}$ ain. The ftrength of the frain is the remainder of the abfolute ftrength of the fibres, after we have deduced the force employed in twiting them together.

From this obfervation may be deduced a fundemental principle in rope-making, that all twifing, beyond what is neceffary for preventing the fibres from teing drawn out withost breaking, dirainifhes the ftrength of the cordage, and fhould be avoided when in our power. It is of importance to keep this int mind.

It is necefrry then to twit the fibres of hemp together, in order to malie a rope; but wief fhould make a very bad rope if we contented ourfelves with twifting together a bunch of hemp fufficiently large to withfland the frains to wlich the rope is to be expoled. As foon as we let it go out of our hands, it would untwift itelef, and be agsin a lorre tuandle of hemp; for the fivers are flrained, and they are in a confiderable degree elaftic ; they contract agmin, and thus untwif the rope or Ikain. It is necelary to continue the twit in fuch a manner, that the tendency to untwif in one part may act againt the fame tendency in another and balance it. The proce.f, thicrefore, of rope-making is more complicated.
The firl part of this procels is spiswivg of rofes. Yaris. This is done in various wav, $s$, and with dififerent machinery, according to the nature of the intended cordage. We fhall confine our defription to the manufo fure of the larger kinds, fuch as are ufed for the fanding and running rigying of flips.
7
Defcription of the 2 ? paratus and manner
oing yit.
Plate
ecoclav.
Fig. 1 .

An allcy or walk is inclofid for the purpofe, about 200 fathoms long, and of a breadth fuited to the extent of the manufachure. It is fomelimes covered above. At the upper end of this rope-was.k is fet up the finin-sing-wheel, of a form refermilling that in fig. 1. The band of this wheel goes over feveral rollers called whiris, turning on pivots in brafs holes. The pivots at one end come through the frame, and terminate in little honks. The wheel being turned by a winch, gives motion in one direction to all thofe whiris. The fpinner has a bundle of drefled bemp round his waif, with the two ends meeting before him. The hemp is laid in this bundle in the fame way that women fpread the flax.on the difataf. There is great varisty in this; but the general aim is to lay the fif res in fuch a manner, that as long as the bundle lafts there may be an equal number of the ends at the extremity, and that a fibre 1 ay never offer itfelf double or in a bight. The frinner draws out a proper number of fibres, twifst them with l's fir gers, and having got a fufficient length detached, he fises i: to the hook of a whirl. The wheecl Is now turned, and the Ik in is twifed, becoming what is called a ROPF- -ARS, and the frimer walks back-
wards pown the rope-walk. The part already twitad draws aiong with it more fibres out of the bundle. The fpinner aids this with his fingers, fupplying hemp in due propertion as he walks away from the whecl, and taking care that the fibres cume in equally from both fides of his bundle, and that they enter always with their ends, and not by the middle, which would double them. He fhould alio endeavour to enter every fibre at the heaut of the yarn. This will caufe all the fires to mix equally in making it up, and will make the work fmooth, becaufe one end of each fibre is by this means buried a.nong the reft, and the other end only lies outward; and this, in palling through the grafp of the frimer, who prefes it tight with lis thumb and palm, is alfo made to lie fmooth. The greatelf fault that can be committed in frimning is to allorv a frall thread to be twitited off from one fide of the hemp, and then to cover this with hemp furplied fiom the other fide : for it is evi lent that the fiores of the central thread make very long fipirals, and the $\mathbb{E k i n}$ of fibres which covers them muift be much more oblique. This cevering has but little connection with what is below it, and will eafly be detached. But even while it remains, the yarn cannot be firong; for, on pulling it, the midale part, which lies the ftraighteft, munf bear all the frain, while the outer fibres, that are lying obliquely, ate only drawn a little more parallel to the axic. This defeet will always happen if the hemp be fupplied in a confderable body to a yara that is then fpinning fmall. Into whatcerer part of the yarn it is made to enter, it becomes a fort of loofely conneted wrapper. Such a yart, when untwifed a little, will have the appearance of fig. 2 . while a good yaia looks like fig. 3. "A good fpinner therefore endearcurs always to fupply the hemp in the form of a thin fat 1 kain with his left hand, while his right is cmployed in grapping firmly the yarn that is twining off, and in holding it tight from the whirl, that it may not iun into loops or kiNks.
It is evident, that both the arrangement of the fibres and the degree of twifing deperd on the fisill and dexterity of the fpinner, and that he muft be inllructed, not by a book, but by a maffer. The degree of twift depends on the rate of the wheel's motion, combined with the retrograde walk of the fpimner.

We may fuppofe him arrived at the lower end of the walk, or as far as is necefliary for the intended length of his yarn. He calls out, and another fpinner inmediately detaches the yarn from the hook of the whirl, gives it to another, who carries it afide to the reel, and this fecond fpinner attaches his own hemp to the whirl hook. In the mean time, the firft fiimner keeps faft hold of the end of his yarn ; for the hemp, being dry, is very claftic, and if he were to let it go out of lis hand it would infantly untwift, and become little better than Ioofe hemp. He waits, therefore, till he fees the reeler begin to turn the reel, and he goes flowly up the walk, keeping the yarn of an equal tightnefs all the way, till he arrives at the wheel, where he waits with his yarn in hand till another fpinner has finithed his yarn. The firft fpinner takes it of the whirl hook, joins it to lis own, that it may follow it on the reel, and begins a new yarn.
Rope-yarns, for the greateft part of the large rig-Difierent ging, are from a quarter of an inch to fomew liat more ki do of than a third of an inch in circumference, or of fuch a aroe-samase. f:ze that 160 fathoms weigh from three and a half to
$\mathbf{R}_{1} \mathrm{R}_{2}$ m-king.
$=$ .


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## R O p [ 273 ) R O

Lape- fcer pounds when white. The different fizes of yarns
soukne are named from the number of them contained in a Itrand of a rope of three inches in circumference. Fewr are fo coarfe that 16 will make a ftrand of Britifh cordage; 18 is not unfrequent for cable yarns, or yarns Spun from harth and coarfe hemp; 25 is, we believe, the finell lize which is worked up for the rigging of a Ship. Much finer are indeed fpun for founding lines, Eilhing lines, and many other marine ufes, and for the other demands of fociety. Ten good fpinners will work up above 600 weight of hemp in a day ; but this depends on the weatber. In rery dry weather the hemp is very elallic, and requires great attention to make frooth work. In the warmer climates, the foinacr is permitted to moiften the rag with which he grafps the yarn in his right hand for each yarn. Nu work can be done in an open fiimning walk in rainy weather, becaufe the yarns would not take on the tar, if immediately tarred, and weuld rot if hept on the reel for a long time.
The fecond part of the procefs is the convertion of the yarns into what may with propriety be called a rope, cord, os line. That we may have a clear conception of the principle which regulates this part of the procefs, we fhall begin with the fimpleft politle cafe, the union of two yarns into one line. This is not a very ufual fabric for rigging, but we felect it for its fimplicity.

When hemp has been folit into very fine fiores by the hatche], it becomes exceedingly foft and pliant, and after it has lain for fome time in the form of fine yam, it may be unreeled and thrown loofe, without lofing nuch of its twit. Twu fucd yarns may be put on the whirl of a fpinning wheel, and thrown, like flaxen yarn, fo as to make fewing thread. It is in this way, indced, that the failmaker's fewing thread is manufactured ; and when it has been kept on the reel, or on balls or bobbins, for fome time, it retains its twitt as well as its ufes require. But this is by no means the cafe with yarns fpun for great cordage. The hemp is fo elatic, the number of fibrcs twifted together is fo great, and the diameter of the yarn (which is a fort of lever on which the elafticity of the fibre exerts itfelf) is fo confiderable, that no keening will make the fibres retain this confrained pofition. The end of a rope yarn being thrown b. fe, it will immediately untwift, and this with confiderable force and fpeed. It would, therefore, be a fruitefs attempt to twift two fuch yarns together; yet the ingenuity of man has contrived to make ufe of this very tendency to untwif not only to counteract itfelf, but even to produce another and a permanent twift, which requires force to undo it, and which will recover itfelf when this force is removed. Every perfon muft recollect that, when lee has twifted a packthread very bard with his fingers between bis two hands, if he flackens the thread by bringung his hands nearer together, the packthread will immediately curl up, running into loops or kinks, and will even twift itfelf into a neat and firm cord. Familiar as this fact is, it would puzzle any perfon not accuftomed to thefe fubjects to explain it with diffinctnefs. We flall confider it with fome care, not as a piece of mechanical curiofity, but as a fundamental principle in this manufacture, which will give us clear inftruftions in direct us in the moft delicate part of the whote procefs. And we beg the attention of the Vor. XVIII. Patt I.
artifs therufelves to a thing which they feem to have overlooked.

Let $m d, n d$ (fir, 4) be two yarne fived to one $\underbrace{\text { R- }}$ point d, and let both of them be twitted, eaco round its own axis, in the direction $a b c$, which will caufe the fibres to lie in a ferew form, as reprefented in the flgure. If the end $d$ of the yarn $m d$ were at liberty 10 turn round the point $d$, it would turn acrordingly, as often as the end $m$ is turned round, and the yarn would acguire no twitt ; but being attached to tome folid body it cannot turn without turning this body. It bas, however, this tendency, and the body mult be forcibly prevented from turning. If it be beld fat for a time, and then let go, it wiil be turned round, and it wiil not fop till it has turned as oficn as the end $m$ has been twited, and now alt the twitt will be undone. Thus it is the tendency of the yarn $m d$ to untwin at the end $d$ (becaufe it is hept fall at $m$ ), which pruduces this motion of the body attached to it at $d$. What we
have faid of the yarn $m d$ is equally true of the yarn motion of the body attached to it at $d$. What we
have faid of the yarn $n d$ is equally true of the yarn $n d$. Both tend to turn, and will turn, the body attached at $d$ round the common axis, in the fame direction in which they are twitted. Let f.o. 5 . be fuppefed Fig. 5 . a crofs fection of the two yarns touching each other at $d$, and there glued to a board. The fibres of each pull ooliquely, that is, they both pull away from the board,
and pull laterally. The direction of this lateral pull of ooliquely, that is, they both pull away from the board,
and pull laterally. The direction of this lateral pull of the fiores in the circumference of each yara is reprefented by the little darts drawn round the circunfe-
rences. Thefe actions directly oppofe and balance each fented by the little darts drawn round the circumfe-
rences. Thefe actions directly oppofe and balance each other at $d$; but in the femicircles oef, tfo, they evidently confpire to turn the board round in the fane di-
reation. The fame may be faid of the vuter halves of rection. The fame may be faid of the vuter halves of any circles defcribed within thefe. In the ianer halves of thefe inner circles the actions of lome fibres oppofe each other; but in every circle there are many more confpiring actions than oppofing ones, and the confpiring actions exert themifelves by longer levers, fo that their joint momentuin greatly cxceeds that of the oppo-
fing forces. It may be demonftrated, that if a!l the their joint momentuin greatly cxceeds that of the oppo-
fing furces. It may be demonftrated, that if all the fibres exert equal forces, the force which tends to tura the board round the common axis is two-thirds of the force employed to twift both the yarns.

Suppofe then that the folid body to which the yarns are attached is at liberty to turn round the common axis; it cannot do this without carrying the yarns
round with it. They muft, therefore, furn round each asis; it cannot do this without carrying the yarns
round with it. They muft, therefore, furn found each other, and thus compofe a rope or cord $k /$, having its component yarns (now called firands) lying in a direc-
tion oppofite to that of the fibres in each lirand. The tion oppofite to that of the fibres in each flrand. The rope will take this twif, while each of thie flands is really untwifing, and the motion will not flop till all
is again in equilibrio. If the yarns had no dianieter and really untwifting, and the motion will not dlop till all
is again in equilibrio. If the yarns had no dianieter and no rigidity, their elaftic contraction would not be balanced till the cord had made half the number of turns which had been given to that part of the yarn which is
thus doubled up. But, as the yarns have a fenfiole diawhich had been given to that part of the yarn which is
thus doubled up. But, as the yarns have a fenfiole diameter, the fame ultimate contraction of the fibres will be expended by the twifting of the cord in fewer turns,
even if the yarns had no rigidity. The turns necelfary be expended by the twifting of the cord in fewer turns,
even if the yarns had no rigidity. The turns neceffary for this purpofe will be fo rauch fewer, in proportion to the (wift of the yarns, as the fibres of the yarn lie more oblinuely, that is, as the yarns are more twifted. But further, this coneractile force has to overcome the
rigidity M ${ }^{\text {rn }}$ But further, this contractile force has to overcome the
rigidity

Ropemaking. $\underbrace{}_{\text {Fig. } 4-}$
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## $\mathrm{ROP} \quad[274] \quad \mathrm{P} 0 \mathrm{P}$

Pope- rigidity or ftifnels of the yarns. This requires force making. merely to bend it into the forew form ; and therefore, when all is again at reft, the fibres are in a flate of flrain, and the sope is not fo much clofed by doubling as it would have been had the yarns been fofter. If any thing can be done to it in this flate which will fofien the yarns, it will twift itfelf more up. It has therefore a tendency to twift more up; and if this be aided by an external force which will bend the frands, this will happen. Beating it with a foft mallet will have this effect; or, if it be forcibly twifted till the fibres are allowed to contract as mucb as they would hase done had the yarn been perfectly foft, the cord will keep this twift without any effort; and this muft be confidered as its moft perfect flate, in relation to the degree of twift originally given to the yarns. It will have no tendency to run into kinks, which is both troublefome and dangerous, and the fibres will not be exerting any ufelefs effort.

To attain this fate fhould therefore be the aim of every part of this fecond procefs; and this plinciple thould be kept in view through the whole of it.

The component parts of a rope are called itrands, as has been already obferved; and the operation of uniting them with a permanent twit is called laying or clofing, the latter term being chiefly appropriated to cables and other very large cordage.
Defeription of the machinery, and noode of ufing it

Fig. 6.
Lines and cordage lefs than $1 \frac{7}{2}$ inches circumference are laid at the fpinning wheel. The workman fattens the ends of each of two or three yarns to feparate whirlhooks. The remote ends are united in a knot. This is put on one of the hooks of a fivivel called the loper, reprefented in fig. 6. and care is taken that the yarns are of equal lengths and twift. A piece of foft cord is put on the other hook of the loper; and, being put over a pulley feveral feet from the ground, a weight is hung on it, which fretches the yarn. When the workman fees that they are equally ftretched, he orders the wheel to be turned in the fame direction as when twining the yarns. This would twine them harder; but the firivel of the loper gives way to the ftrain, and the yarns immediately twift around each other, and form a line or cord. In doing this the yarns lofe their twift. This is refored by the wheel. But this fimple operation would make a very bad line, which would be flack, and would not hold its twift; for, by the turning of the loper, the flrands twit immediately together, to a great diftance from the loper. By this tuming of the loper the yarns are untwitted. The wheel reftores their twit only to that part of the yarns that remains feparate from the others, but cannot do it in that part where they are already twined round each other, becaufe their mutual preffure prevents the twif from advancing. It is, therefore, ofceflary to retard this tendency to twine, by keeping the yarns apart. 'This is done by a little tool
fufficiently hardened. Then be yields to the preffure, and the top comes away from the fwivel, which inmediately turns round, and the line begins to lay.-Gra-

Rope: making. dually yielding to this preffure, the workman flowly comes up towards the wheel, and the laying goes on, till the top is at laft clofe to the wheel, and the work is done. In the mean time, the yarns are fhortened, both by the twining of each and the laying of the cord. The weight, therefore, gradually rifes. The ufe of this weight is evidently to oblige the yarn to take a proper degree of twift, and not run into kinks.

A cord or line made in this way has always fome tendency to twift a little more. However little friction there may be in the loper, there is fome, fo that the turns which the cord has made in the laying are not enough to balance completely the elafticity of the yarns; and the weight being appended caules the ftrands to be more nearly in the direction of the axis, in the fame manner as it would ftretch and untwit a little any rope to which it is hung. On the whole, however, the twift of a laid line is permanent, and not like that upon thread doubled or thrown in a mill, which remains only in confequence of the great loftneis and flexibility of the yarn.

The procefs for laying or clofing large cordage is Larze or confiderably different from this. The flrands of which hawierthe rope is compofed confilt of many yarns, and re-laid corquire a confiderable degree of hardening. This cannot fage is dis be done by a whirl driven by a wheel band; it requires formed. the power of a crank turned by the hard. The ftrands, when properly hardened, become very fliff, and when bent round the top are not able to tranfmit force enough for laying the heavy and unpliant rope which forms beyond it. The elaftic twift of the hardened ftrands muft, therefore, be affifted by an external force. All this requires a different machinery and a different procefs.
At the upper end of the walk is fixed up the tackle- machin

At the upper end of the walk is fixed up the tackle-Machinery, bard, fig. 8. This confifts of a ftrong oaken plank ard mode called a brea/-board, having three or more holes in it, of ufing it fuch as $A, B, C$, fitted with brafs or iron plates. Into in this cafe. thefe are put iron cranks, called heavers, which have Fig. 8. hooks, or forelocks, and keys, on the ends of their fpindles. They are placed at fuch a diflance from each other, that the workmen do not interfere with each other while turning them round. This breaft-board is fixed to the top of ftrong pofts well fecured by ftruts or braces facing the lower end of the walk. At the lower end is another breaft-board fixed to the upright polts of a fledge, which may be loaded with ftones or other weights. Similar cranks are placed in the holes of this breaft board. The whole goes by the name of the fledge; (fee fig. 9.). The top neceflary for clufing large cordage is too heavy to be held in the hand. It therefore has a long ftaff, which has a truck on the end. This refts on the ground ; but even this is not enough in laying great cables. The top mult be fupported on a carriage, as thown in fig. 10. where it muft Fio. se. lie very fteady, and need no attendance, becaufe the mafter workman has fufficient employment in attending to the manner in which the firands clofe behind the top, and in helping them by various methods. The top is, therefore, fixid to the carriage by lakhing its flaff to the two upright poils. A piece of foft rope, or ftrap, is attached to the handle of the top by the middle, and its two ends are brought back and wrapped feveral times tight round the rope, in the dircction of its twit, and
bound

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Rnาe. bound down. This is fhown at W, and it greatly af-makingfills the laying of the rope by its frition. Whis both
keeps the top from flying too far from the point of union of the itrands, and brings the ltrands more regularly into their places.

The firit operation is warping the yarns. At each end of the walk are frames called warping frames, which carry a gieat number of reels or winches filled with rope.yarn. The foreman of the walk takes off a yarn end from each, till he has made up the number neceffary for lis rope or ftrand, and bringing the ends together, he paffes the whole through an iron ring fixed to the top of a ttake driven into the ground, and draws them througin : then a knot is tied on the end of the bundle, and a workman pulls it through this ring till the intended length is drawn off the reels. The end is made fatt at the bottom of the walk, or at the fledge, and the foreman comes back along the fasin of yarns, to fee that none are hanging flacker than the reff. He takes up in his hand fuch as are flack, and draws them tight, keeping them fo till he reaches the upper end, where he cuts the yarns to a length, again adjufts their tightnels, and joins them all together in a knot, to which be fixes the hook of a tackle, the other block of which is fixed to a firm poil, called the suarping-pof. The flain is well ftretched by this tackle, and then feparated into its different ftrands. Each of thefe is knotled apart at both ends. The knots at their upper ends are made faft to the hooks of the cranks in the tackle-board, and thofe at their lower ends are faftened to the cranks in the fledge. The fledge itfelf is kept in its place by a tackle, by which the ftrands are again ftretched in their places, and every thing adjufted, fo that the fledge flands fquare on the walk, and then a proper weight is laid on it. The tackle is now caft off, and the cranks are turned at both eids, in the contrary direction to the twift of the yarns. (In fome kinds of cordage the cranks are turned the fame way with the finnsing twif). By this the frands are twifled and hardened up; and as they contract by this operation, the fledge is dragged up the walk. When the foreman thinks ti.e firands fufficiently hardened, which he eftimates by the motion of the fledge, he orders the heave:s at the cranks to fop. The middle frand at the thedge is talien off from the crank. This crank is taken out, and a ftronger one put in its place at D, fig. 9. The other frands are taken off from their cranks, and all are joined on the hook which is now in the middle hole. The top is then placed between the ftrands, and, being prefsed home to the point of their union, the carriage is placed under it, and it is firmly fived down. Some weight is taken off the fldge. The heavers now begin to turn at both ends. Thofe at the tackie-board cortinue to turn as they did before; but the heavers at the fledge turn in the onponite direstion to their fremer motion, fo that the cranks at hoth ends are now turning one way. By the motion of the fledge crank the top is forced away from the knot, and the rone begins to clofe. The heaving at the upper end reftores to the ffrand the twift which they are conffantly lofing by the laying of the rope. The workme: judge of this by making a chalk mark on intermediate points of the ftrand, where they lie on the ftakes which are fet up along the walk for their fapport. If the twitt of the ftrands is diminifisd by the motion of clofing, they
will lengtien, and the chalk mark will move awsy from Rapethe tackle-board: Lut if the twilt increales by turning $\underbrace{\text { rikine. }}$ the cranks at the tacklc-board, the Itrands will horten, and the mark will cume neater to it.

As the cluting of the rope advances, the whole flotens, ans the the ge is dragked up the walk. The top moves futter, and at laft reaches the upper end of the walk, the rope bcing now laid. In the mcan time, the đedge las moved fevcral fathoms from the place wherc it was when the laying began.

Thefe motions of the liedige and top mult be exactly adjuted to each other. The rope mult be of a certain length. Therefore the fledge muft flop at a certain place. At that moment the rope flould be laid; that is, the top flould be at the tacke-board. In this confirts the addrefs of the foreman. He lias his aitention directed both ways. He looks at the ftrands, and when he fees any of them hanging flacker between the ft kes than the others, he calls to the heavers at the tackleboard to heave more upon that ftrand. He finds is more difficelt to regulate the motion of the top. It re quires a confiderable force to keep it in the angle oi the flrands, and it is always difpoled to flart forward. To prevent or check this, fome fraps of foft rope are brought round the faff of the top, and then wrapped feveral times round the rope behind the top, and kept f.muly down by a lanyard or bandace, as is fhown in the figure. Tlis both holds back the top and greatly affits the leying of the rope, caufing the flrands to falt into their places, and keep clofe to each other. This is fometimes very difficult, elpecially in ropes compofed o* more than three ftrands. It will greally iopprove the laying the rope, if the top have a flarp, fmooth. tapering pin of hard wood, pointed at the end, projecting fo far from the middle of its fnaller end, that it geis in between the ftrands which are clofing. This fropports them, and makes their clofing more gradual and regular. The top, its notches, the pin, and the virp or ftrap, which is lapned round the rope, are all frated with greafe or foap to apt the clofing. The fo.eman judges of the progress of dofing chicfly by his acpraintance with the walk, knowing that when the fledge is abreaft of a certain flake the top fhould be abreaft of a certain other flake. When he finds the top too far down the walk, he flackens the motion at the tackle-board, and mukes the men tum brikly at the Aldge. By this the top is forced up the walk, and the laying of the rope accelerates, while the fedge remains in the fame place, becaule the ftrands are lofing the' r twilt, and are lo ythening, while the clofed rope is fhortening. When, on the other hand, he thinks the top too far adv sced, and fears that it will be at the head of the walk before the fledse has got to its proper place, he makes the men heave brifkly on the ftands, and the heavers at the Gedge crank to work foftly.This quickens the motion of the fledge by fhortening the firands; and by thus compenfating what has been overdone, the fledge and top come to their places at once, and the work appears to anfiver the inte ation.

But $t$ is is a bad manner of proceeding. It is evi- S me imdent, that $\mathrm{i}^{8}$ the flrands be kept to one degree of hard- proptictics nefs throughout, and the heaving at the fiedge he uni- $n$th sproformly continued, the rope will be uniform. It may out, and ned be a İtte longer or fhorter than was intended, and the layitg may be too hard in proportion to the twift of Mm?
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Ropemakins.
the ftrands, in which cafe it will not keep it; or it may te too llack, and the rope will tend to twift more. Either of thefe faults is difcoverable by flackening the rope before it come off the hooks, and it may then be corrected. But if the error in one place be compenfated by that in another, this will not be eanily feen before taking of the hooks; and if it is a large and ftiff rope, it will hardly ever come to an equable ftate in its dificene fart, but will be apt to run into loops during fervice.

It is, therefore, of importance to preferve the uniformity throughout the whole. NI. Du Hamel, in his great work on rope-making, propofes a method which is very exact, but requires an apparatus which is currberfome, and which would be much in the way of the workmen. We think that the following mothod would be extremely eafy, embarrafs no one, and is perfectly exact. Having determined the proportion between the velocity of the top and fledge, let the diameter of the truck of the top carriage be to that of another truck fixed to the fledge, in the proportion of the velocity of the top to that of the fledge. Let a mark be made on the rim of each; let the man at the fledge make a fignal every time that the mark on the fledge truck is uppermolt. The mark on the carriage truck fhould be uppermoit at the fame inftant; and in this way the foreman knows the fate of the rope at all times without quitting his fation. Thus, in making a cable of 120 fathoms, it is ufual to warp the yarns 180 fathoms, and to harden them up to 140 before clofing. Therefore, in the clofing, the top mull have 140 fathoms, and the fledge only 22 . The diameter of the carriage truck fhould therefore be feven times the diameter of the fledge truck.

We have hitherto proceeded on the fuppofition, that the twift produced by the cranks is propagated freely slong the firands and along the clofing rope. But this is not the cafe. It is almoft unavoidable that the iwift is greater in the neighbourhood of the crank which producesit. The ftrands are frequently of very confiderable weight, and lie heavy on the Stakes. Force is therefore neceffary to overcome their friction, and it is only the overplus that is propagaied beyond the flake. It is proper to lift them up from time to time, and let them fall down again. as the fawer does with lis marking lime. This helps the twit to run along the frand. But this is not enough for the clofed rope, which is of much greater weight, and much fliffer When the top approaches the tackle-board, the beaving at the fledge could not caufe the ftrands, immediately behind the top to clofe well, without having previoully produced an extravagant degree of twit in the intermediate rope. The effort of the crank mult therefore be affifted by men ftationed along the rope, each furnifhed with a tool called a wook'er. This is a flout oak flick about three feet long, having a trap of foft ropeyarn or cordage faftened on its middle or end. Tle firap is wrapped round the laid rope, and the workman works wi,h the nick as a lever, twilling the rope round in the direction of the cratik's motion. The woolders dhould keep their eye on the men at the crank, and make their motion correfpond with his. Thus they fend forward the twift produced by the crank, without either increafing or diminifhing it, in that part of the rope which lies between them and the fledge.

It is whal before taking the rope ficm the looks to heave a while at the fledge end, in order to harden the rope a little. They do this fo as to take it up about

R-mpemakingo $6^{3} 5^{\circ}$. The propiety or impropriety of this praciice depends entirely on the proportion which has been previoufly olferved between the harocning of the ftrands and the twitting of the clofing rope. It is, in all cafes, better to adjut thefe precifely, and then nothing remains to be done when the top has arrived at the upper end of the walk. The making of two Itrand and three firand line pointed out the pinciple which fhould be attended to in this cafe; namely, that the twif given to the rope in laying Chould be precifely what a perfesly foft rope would give to itfelf. We do not fee any realon for thinking that the proportion between the number of turns given to the firands and the number of turns given to the laid line by its own elafticity, will vary by any difference of diameter. We would therefore recommend to the artifts to fettle this proportion by experiment. The line fhould be made of the fireft, fraalleit, and fofteft threads or yarn. Thefe fhould be made into ftrands, and the ftrands fhould be hardened up in the direction contrary to the fpinning twiit. The rope fhould then be laid, hanging perpendiculatly, with a fmall weight on the top to keep it down, and a very fmall weight at the end of the rope. The rumber of turns given to the ftrands flould be carefully noticed, and the number of turns which the rope takes of itfelf in clofing. The weight fhould then be taken off, and the rope will make a few turns more. This whole number will never exceed what is neceffary for the equilibrium ; and we imagine it will not fall much thort of it. We are clearly of opinion that an exact adjuffment of this particular will tend greatly to improve the art of rope-making, and that experiments on good principles for afcertaining this proportion would be highly valuable, becaufe there is no point about which the artifts themlelves differ more in their opinions and
practice.
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The cordage, of which we have been defcribing the Mode of manufacture, is faid to be HawsER-LAID. It is notmaking uncommen to make ropes of four ftrands. Thefe are fhroud-laid wfed for firouds, and this cordage is therefore called cordage SHRCUD-lail coidage. A rope of the fame fize and ftrands, weight muft be fmoother when it has four ftrands, becaule the ftranc's are fmaller : but it is more difficult to lay clofe. Wi hen three cylindrical fands are fimply laid together, they leave a vacuity at the axis amounting to $\frac{x}{2} \frac{1}{8}$ of the fection of a ftrand. This is to be filled up by comprefling the ftrands by twifting them, Each muft fill up $\frac{+}{}$ of it by changing its farpe; and. $\frac{x}{3}$ of this change is made on each fide of the firand. The greateft change of thare therefose madc on any one part of a firand amoun's only to $\frac{x}{6} \sqrt{3}$ of the fiction of the firand. The vacuity between four cylinders is s's of one of them. This being divided into eigbt partsy is $\frac{2}{3} 9$ of a ftrand, and is the greateft compleftion which any part of it has to undergo. This is nearly five times greater than the former, and muft be more difficult to produce. Indeed it may be feen by louking at the figures 11. and 12. that it will be enfier to comprefs a Fig. 11. add frand into the obtufe angle of 120 degrees than into 12 . the right, angle of 90 ; and without reafoning moreabout the matter, it appears that the difficulty will in
create
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Rore making.

cie.fee whin the number of flands. Six firands muft teuch each other, arid formi an arch leaving a hollow in the middle, into which one of the franos will flip, and then the reit will nat completely furround it. Such a rope woth the uneven on the furface. It would be weak; becarele the central ftrand would be flack in comparitoti of the reif, and would not be exerting its whole force then they are jun ready to break. We fee then that a fout ltrand rope mult he more difficult to fay-welł than a havefer-lait rope. With care, however, they may be laid well and clole, and ase much wied in the royal navy.

Ropes are mare of four ftrands, with a lieart or ftrand in the middle. This gives no additional ftrength, for the reafon juit now given. Its only ufe is to make the work better and more eafy, and to lupport all the Arands at the fame diltance from the axis of the rope. This is of great confequence; becaule when they are at unequal diftances from the axis, fome muft be more floping than others, ard they will not refift alike. This heart is made of inferior ftuif, flack laid, and of a fize jult equal to the fyace it is to fill. When a rope of this fabric has been long ufed and become unferviceable, aod is opened out, the heart is always found cut and chaffed to pieces, tike very fhort oakum. This happens as follows: When the rope is violently itrained, it fretches greatly; becaufe the ftrands firround the axis obliquely, and the frain draws them into a pofition more parallel to the axis. But the heart has not the obliquity of parts, and cannot Atretch fo much; at the fame time, its yarns are firmly grafped by the hard fratids which furround them; they muit therefore be torn into fhort piecec.

- The proce?s for laying a rope with a heart is not very different from that already defcribed. The top hras a hole pierced through it, in the direstion of the ayis. The flatin or frand intended for the heart paffes through this hole, and is ftretched along the walk. A boy attends it, holding it tight as it is taken into the clofing rope. Eist a little atterition to what has been faid will fhow this method to be defective. The wick will have no more turns than the laid rope; and as it lies in the very axis, its yarns will be much fraighter than the ftrands. Therefore when the rope is ftrained and ftretched, the wick cannot ftretch as much as the laid ftrands; and being firm' $\%$ grafped by them, it mult break into fhort pieces, and the frands, having fort their fupport in thofe places, will fink in, and the cordage grow loofe. We fhould endeavour to enable all to ftretch alike. The wick therefore thould be twifted in the fame manner as the ftrands, perbaps even a litt!e more. It will thus communicate part of its ftrength to the rope. Indeed it will not be fo uniformly folid, and may chance to have three firal vacoities. But that this does no harm, is quile evice..t from the fuperior ftrength of cable-laio cordge, to be deferibed prefently, which have the fame vacuities. In this way are the main and fore Rays' made for fhips of the line. They are thouglit ftronger than hauferlaid ropes, but unfit for running rigging; becaufe their
12., frands are apt to get out of their places when the rope is drawn into frops. It is, alfo thonght that the heart retains water, fols, and communicates its putsefaction to. the furroundirig frands.
3ienm?

Such is the general and effential procefs of tope ma. Ropeking. The fibres of hemp are twifted into yarns, that making. they may make a line of any length, and fick among - 17 each other with a force equal to their own cohefion. RecapituThe yarns are made into cords of permanent twift by atoon. laying them; and, that we may have a rope of any degree of ftrength, many yarms are united in one ftrand, for the fame reafon that many fibres were united in one yarn; and in the courfe of this procefs it is in our power to give the rope a folidity and hardnefy which makes it leis penctrable by water, which would rot it in a fhort while. Some of thefe purpofes are inconfiftent with others : and the fkill of a rope-maker lies in making the beft compenfation; fo that the rope may or the whole be the beft in point of ftrength, pliancy, and duration, that the quantity of hemp in it can produce.

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There is another §pecies of cordage in very general Morte of ufe. A rope of two or more ftrands may be ufed as a making ftrand, in order to compofe a fiill larger rope; and in cordage. this manner are cables and other ground tackle commonly made; for this reafon fuch cordage is called cabie-laid cordage.

The procefs of cable-laying hardly differs from that of hawfer-laying. Three ropes, in their fate of permanent twift, may be twifted together; but they will not hold it, like fine thread, becaule they are itiff and elaftic. They mult therefore be treatel like ftrands for a hawfer. We mut give them an adilizonal twift, which will difpofe them to liay or clofe themelelves; and this difpofition mult be aided by the workmen at the fiedge. We fay the twift fhould be an addition to their twift as a rope. A twift in the oppofite direction will indeed give them a dippofition to clofe behind the top; but this will be very fmall, and the ropes (now trands) will be exceedingly open, and will become more open in laying. The twift is therefore given in the direction of their twith as a rope, or oppoite to that of the primary ftrands, of which the ropes are compofed. Thefe primary ftrands are therefore partly untwifted in cable laying a ropc, in the fame roanner as the yarns are untwithed in the uftal procef of rope-making.

We need not infiet farther on this part of the mamnfact:re. The reader mut be fenfible that the hawfers intended for Arands of a cable mut not be fo much twited as thofe interided to yemain hawfers; fur the: twift given to a frimed tawfer is prefumed to be that: which renders it molf perfect, and it nult be injured by any addition. The precife proportion, and the didilri-s bution of the woiking up betwicen the, hardening of the ftrands and clofing the cable, is a fubject about which the artiits are no better agreed than in the cale of haw-fer-laid cordage. We did not enter on this fubject while defribing the procefs, becaufe the introduction of reafonings and principles would have hart the fimplicity of the defription. The reader being now acquainted with the different farts of the manipulation, and knowirg what can be done on kny occafion, will-v now be able to judge of the propricty of the whule, when lie leans the principle on which the tireugth of । a sope depeads.

We have already faid, that a rope-yarn fhould be ionte cs twifted till a fibre will break rather thum be pulled out pfimating from among the reft, and that all twifing beyond thissistive forengith injurious to the ftrength of the yarn: And we advanced

## $\mathrm{R} O \mathrm{P} \quad\left[\begin{array}{lll}278\end{array}\right] \quad \mathrm{RO} \mathrm{P}$

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1iffect of
twifting on the ftrength of rope=,
\&c.

Fig. ${ }^{3}$.

Fiz. 14.
this maxim upon this plain eorffderation, that it is needlefs to bind them clofer together, for they will slseady break rather than come out; and becatule this clofer binding is produced only by forcibly wrapping the outer fibres round the inner, and drawing the outer ones tight. Thus thefe fibres are on the fretch, and are ftrained as if a weight were hung on each of them. The procefs of laying lines, of a permanent twit, fhows that we mut do a little more. We mult give the yam a degree of elaftic contractility, which will make it lay itfelf and form a line or cord which will retain its twift. This muft leave the fibres of the yarns in a tate of greater compreffion than is neceflary for juft keeping them together. But more than this feems to be needlefs and hurtful. The fame maxim muft direct us in forming a rope confifting of Atrands, containing more than one yarn. A ncedlefs excef's of twift leaves them ftrained, and lefs able to perform their office in the rope.

It not unfrequently happens, that the workman, in order to make his rope folid and firm, hardens up the ftrands till they really break: and we believe that, in the general practice of making large hawfers, many of the outer yarns in the ftrands, efpecially thofe which chance to be outermoft in the laid rope, and are therefore mott ftrained, are broken during the operation.

But there is another confideration which fhould alfo make us give no greater twift in any part of the operation than is abfolutely neceffary for the firm cohefion of the parts, and this independent of the ftrain to which the fibres or yarns are fubjected. Twifting caufes all the fibres to lie obliquely with refpect to the axis or general direction of the rope. It may juft happen that one fibre or one yarn fhall keep in the axis, and remain ftraight; all the reft mutt be oblique, and the more oblique as they are farther from the axis, and as they are more twifted. Now it is to be demonftrated, that when any frain is given to the rope in the direction of its length, a ftrain greater than this is actually excited on the oblique fibres, and fo much the greater as they are more oblique; and thus the fibres which are alrcady the weakelt are expofed to the greateft ftrains,

Let CF (fig. 13.) reprefent a fibre lianging from a hook, and loaded with a weight F , which it is juft able to bear, but not more. This weight may reprefent the abfolute force of the fibre. Let fuch another fibre be laid over the two pulleys $\Lambda, B$ (fig. ${ }^{1} 4$ ), which are in a horizontal line $A B$, and let weights $F$ and $f$, equal to the former, be hung on the ends of this fibre, while another weight R , lefs than the fum of F and $f$, is hung on the middle point $C$ by a hook or thread. This weight will draw down the fibre into fuch a pofition ACB , that the three weights $\mathrm{F}, \mathrm{R}$, and $f$. are in equilibrio by the intervention of the fibre. We affirm that this weight $R$ is the meafure of the relative flrength of the fibre in relation to the form $\triangle C B$; for the fibre is equally firetched in all its parts, and therefore in every part it is ftrained bv the forec $F$. If therefore the weights $F$ and $f$ are held faft, and any addition is made to the weight R, the fibre mut break, being already ftrained to its full frength; thencfore $R$ meafures its ftrength in relation to its fituation. Comnlete the parallelogram $A C B D$, and draw the diagonal $C D$; becaufe $A B$ is horizontal, and $\mathrm{AC}=\mathrm{BC}, \mathrm{DC}$ is vertical, and coin-
cides with the direction CR , by which the weight h acts. The point C is drawn by three forces, which are in equilibrio. They are therefore proportional to the fides of a triangle, which have the fame directions; or, the force acting in the direction CA is to that acting in the direction CR as CA to CD. The point $R$ is fupported by the two furces $C A, C B$, which are equivalent to $\mathrm{CD} ;$ and therefore the weight F is to the weight R as CA is to CD. Therefore the abfolute flrengths of the two fibres $\mathrm{AC}, \mathrm{BC}$, taken feparately, are greater than their united itrengths in relation to their pofition with refpect to $C R$ : and fince this proportion remains the fame, whatever equal weights are hung on at F and $f$, it follows, that when any frain DC is made to act on this fibre in the direction DC, it exeites a greater ftrain on the fibre, becaufe CA and CB taken together are greater than CD. Each fibre fuftains a ftrain greater than the half of CD .

Now let the weight $R$ be turned round the axis $C R$. This will eaufe the two parts of the fibre ACB to lap round each other, and compofe a twifted line or cord CR , as in fig. ${ }^{1} 5$, and the parallelogram ACBD will Fig. is. remain of the fame form, by the yielding of the weights F and $f$, as is evident from the equilibrium of forces. The fibre will always affume that form which makes the fides and diagonal in the proportion of the weights. While the fibres lap round each other, they are ftrained to the fame degree, that is, to the full extent of their ftrength, and they remain in this degree of ftrain in every part of the line or cord CR. If therefore each of the fibres has the ftrength AB , the cord has the frength DC ; and if F and $f$ be beld faft, the fmalleft addition to $R$ will break the cord. The fum of the abfolute ftrength of the two fibres of which this thread is compofed is to the fum of their relative ftrengths, or to the frength of the thread, as $A C+C B$ is to $C D$, or as AC is to EC .

If the weights F and $f$ are not held faft, but allowed to yield, a heavier weight $r$ may be hung on at $C$ with. out breaking the fibre ; for it will draw it into another pofition $\mathrm{A} c \mathrm{~B}$, fuch that $r$ flall be in equilibrio with F and $f$. Since F and $f$ remain the fame, the fibre is as much flrained as before. Therefore make $c a, c b$ cqual to $C A$ and CB, and complete the parallelogram $a c b d$. $c d$ will now be the meafure of the weight $r$, becaufe it is the equivalent of $c a$ and $c b$. It is evident that $c d$ is greater than CD, and therefore the thread formed by the lapping of the fibre in the pofition $a c b$ is fironger than the former, in the proportion of $c d$ to CD , or $c e$ to CE. The cord is therefore fo much ftronger as the fibres are more parallel to the axis, and it muft be ftrongeft of all when they are quite parallel. Bring the pulleys $A, B$, elofe to each other. It is plain that if we hang on a weight $R$ lefs than the fum of $F$ and $f$, it cannot take down the bight of the fibre ; but if equal to them, although it cannot pull it down, it will keep it down. In this cale, when the fibres are parallel to each other, the ftrength of the cord (improperly fo called) is equal to the united abfolute ftrengths of the fibres.

It is cafy to fee that the length of each of the fibres which compofe any part Cf of this cord is to the length of the part of the cord as $A C$ to EC ; and this is the cafe even although they fhould lap round a cylinder of any diameter. This will appear very clearly to

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Rope- any perfon who confiders the thing with attention. Let making. Fig. 16. ac (fig. 16.) be an indefinitely fmall portion of the fibre which is lapped obliquely round the cylinder, and let HKG be a fection perpendicular to the axis. Draw $a$ e parallel to the axis, and draw e $c$ to the centre of the circle HKG, and $a e^{\prime}$ parallel to $e c$. It is plain that $e^{\prime} c$ is the length of the axis correfponding to the fimall portion $a c$, and that $e^{\prime} c$ is equal to $a \varepsilon$.

Hence we derive another manner of exprefling the ratio of the abfolute and relative ftrength; and we may fay that the abfolute firength of a fibre, which has the fame obliquity throughout, is to its relative ftrength as the length of the fibre to the length of the cord of which it makes a part. And we may fay, that the ftrength of a rope is to the united abfolute ftrength of its yarns as the length of the cord to the length of the yarns; for although the yarns are in various fates of obliquity, they contribute to the ftrength of the cord in as much as they contribute immediately to the ftrength of the Itrands. The ftrength of the yarns is to that of the ftrands as the length of the yarns to that of the ftrands, and the ftrength of the ftrands is to that of the rope as the length of the firft to that of the laft.

And thus we fee that twifting the fibres diminifhes the ftrength of the affemblage; becaufe their obliquity, which is its neceffary confequence, enables any external force to excite a greater ftrain on the fibres than it could have excited had they remained parallel; and fince a greater degree of twifting neceffarily produces a greater obliquity of the fibres, it mult more remarkably diminifh the ftrength of the cord. Moreover, fince the greater obliquity cannot be produced without a greater ftrain in the operation of twifting, it follows, that immoderate twiting is doubly prejudicial to the firength of cordage.
Theoretical Thefe theoreticąl deductions are abundantly confirmed dductions by experiment; and as many perfons give their affent confirmed by Reautrur's expe riments,
of them bore $29^{\gamma}$, another $33 \frac{1}{1}$, and the third 35 ; thercfore the fum of their ablolute itrengths was 98 . In another part which broke with 72 , the ftrands which had already borne this 11 rain were feparated. They bore 26, 28 , and 30 ; the fum of which is $8 \not+$.

Admiral Sir Charles Knowles made many experi- and by ments on cordage of lize. A piece of rope $3^{\frac{1}{3}}$ inches thefe of Sir in circumference was cut into many portions. Each of thefe had a fatliom cut off, and it was carefully opened out. It was white, or untarred, and contained 72 yarns. They were each tried feparately, and their mean frength was 90 pounds. Each correfpending piece of rope was tried apart, and the mean litergth of the nine pieces was $455^{2}$ pounds. But 90 times 72 is 6480 .
Nothing is more familiarly known to a feaman than Further ${ }^{23}$ the fuperior ftrength of rope-yarns made up into a flain marke on without twitting. They call fuch a piece of rope a twiftirg. Salvage. It is ufed on board the king's fluips for rolling tackles, flinging the great guns, butt-fings, nippers for holding the viol on the cable, and in every fervice where the utmoft firength and great pliancy are wanted.

It is therefore fufficiently eftablifhed, both by theory and obfervation, that the twilting of corlage diminifhes its flrength. Experiments cannot be made with fufficient precifion for detcrmining whether this diminution is in the very proportion, relative to the obliquity of the fibres, whici theory points out. In a hawler the yarns lie in a great variety of angles with the axis. The very outermoft yarn of a tlrand is not much inclined to the axis of the rope: for the inclination of this yarn to the axis of.its own frand nearly compenfates for the inclination of the flrand. But then the oppofite yarn of the fame ftrand, the yarn that is next the axis of the rope lies with an obliquity, which is the fum of the obliquilies of the ftrand and of the yarn. So that all the yarns which are really in the avis of the rope are cxceedingly oblique, and, in gereral, the infide of the rope has its yarns more oblique than the outfide. But in a laid rope we faculd not confider the ftrength as made up of the ftrengths of the yarns; it is made up of the ftrengths of the Alrands: For when the repe is violently ftretched, it intwifts as a rope, and the ftrands are a little more twitled; fo that they are rcfilting as ftrands, and not as yarns. Irdeed, when we confider the procefs of laying the rope, we fee that it muft be fo. We know, from what has been already faid, that the three ftrands would carry more whei parallel that when twifted into a rope, although the yarris would then be much more oblique to the axis. The chief attention therefore fhould be thaned to the making the mult perfect ftrands.

We are litiy au horifed to fay that the twi? gi on to cordage fhould be as moderate as poffible. We are certain that it diminifhes the Itrength, and that the appearance of tirength which its funerior fmoothncts and lardne!'s gives is fal!a ious. But a certain degree of this is neceffary for its duration. If the tope is laid too fack, its p.rts are apt to uper whic it hapens to be catcled in ih rt loo's at its $g$ ing into a rulley, Eic. in which c.fe lome of the tionds or yarus are apt to kink etd break. It alfo becomes too pervichs to waec, wil ch fuaks and rotsit. To peement theie and other fuch incont enieness, a conifunaide dergee of framefo or tad

Rope making.

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Erperimerts of Du Hamel to aticertain the beft degree of iwift, \&:c.
refls is necellary ; and in order to give the cordage this appearance of fuperior ftrength, the manufacturer is difpofed to exceed.

Mr Du Hamel made many experiments in the royal dock yards in France, with a view to afcertain what is the beft degree of twift. It is ufual to work up the yarns to $\frac{2}{3}$ of their length. Mr Du Hamel thought this too mach, and procured fome to be worked up only to $\frac{5}{4}$ of the length of the yarns. The ftrength of the firt, by a mean of three experiments, was 4321 , and that of the laft was 5187 .

He caufed three ropes to be made from the fame hemp, fpun with all poffible equability, and in fuch proportion of yarn that a fathom of each was of the fame weight. The rope which was worked up to $\frac{2}{3}$ bore 4098 pounds; that which was worked up to $\frac{i}{4}$ bore $4^{8} 50 ;$ and the one worked up to $\frac{4}{3}$ bore 6205 . In another trial the firengths were 4250,6753 , and 7397. Thefe ropes were of different fizes.

He had infuence enough, in confequence of thefe experiments, to get a confiderable quantity of rigging made of yarns worked up only to $\frac{1}{4}$ of their length, and had them ufed during a whole campaign. The otficers of the flips reported that this cordage was about $\frac{5}{4}$ lighter than the ordinary kind; nearly $\frac{\gamma}{8}$ flenderer, to as to give lefs hold to the wind, was therefore more fupple and pliant, and run eafier through the blocks, and did not ron into kinks; that it required fewer hands to work it, in the proportion of two to three; and that it was at leaft $\frac{x}{4}$ ftronger. And they faid that it did not appear to have fuffered more by ufing than the ordinary cordage, and was fit for another campaign.

Mr Du Hamel alfo made experments on other fabrics of cordage, which made all twifting unnecellary, fuch as fimply laying the yarn in \{kains, and then covering it with a worming of finall line. This he found greatly fuperior in ftrength, but it had no duration, becaufe the covering opened in every thort bending, and was foon fretted off. He alfo covered them with a woven coat in the manner practifed for houfe funiture. But this could not be put on with fufficient tightnefs, without an enormous expence, after the manner of a horfe-whip. Small rupes were woven folid, and were prodigionfly ftrong. But all thefe fabrics were found too fuft and pervious to water, and were foon rendered unferviceable. The ordinary procefs of rope-making therefore muft be adhered to ; and we muft endeavour to improve it by diminifhing the twift as far as is compatible with the neceffary folidity.

In purfance of this principle, it is furely advifable to lay flack all fuch cordage as is nfed for ftanding rigging, and is never expofed to fhort bendings. Shrouds, ftays, backftays, pendants, are in this fituation, and can eafily be defended frum the water by tarring, ferving, \&c.

The fame principle alfo directs us to make fuch cordage of four ftrands. When the ftrands are equally hardened, and when the degree of twift given in the laying is precifely that which is correfpondent to the twift of the ftrands, it is demonftrable that the ftrands are lying lefs obliquely to the axis in the four-ftrand cordage, and fhould therefore exert greater force. And experience fully confirms this. Mr Du Hamel caufed two very fmall harsfers to be made, in which the ftrands
were equally hardened. One of then had three ffrands, and the other fix with a heart. They were worked up to the fame degree. The firt broke with 865 pounds, made, with the fame precautions, between cordage of three and of four ftrands, and in them a! the four-1trand cordage was found greatly fuperior ; and it appeared that a heart jucicioufly put in not only made the work eafier and more perfect to the eye, but alfo increafed the ftrength of the cordage.

It is furely unreafonable to refufe credit to fuch a uniform courle of experiment, in which there is no motive for impofition, and which is agrecable to every clear notion that we can form on this complicated fubject; and it argues a confiderable prefumption in the profeftional artills to oppofe the vague netions which they have of the matter to the caim reffections, and minute examination of cvery particular, by a man of good underfanding, who had no intereft in mifleading them.

The fame principles will explain the fuperiority of Superiority cable-laid cordage. The general aim in rope-making f cahleis to make every yarn bear an equal thare of the gene- lad corral ftrain, and to put every yarn in a condition to bear dage, \& C. it. But if this cannot be done, the next thing aimed at is, to put the yarns in fuch fituations that the ftrains to which they are expofed in the ufe of the rope may the proportioned to their ability to bear it. Even this point cannot be attained, and we muft content ourfelves with an approach towards it.

The greateft difficulty is to place the yams of a large ftrand agreeably to thofe maxims. Suppofing them placed with perfect regularity round the yarn which is in the middle: they will lie in the circumferences of concentric circles. When this whole mafs is turned equally round this yarn as an axis, it is plain that they will all keep their places, and that the middle yam is fimply twitted round its axis, while thofe of the furrounding circles are lapped round it in fpirals, and that thefe fpirals are fo much more oblique as the yarns are farther from the axis. Suppofe the fledge kept faft, fo that the itrand is not allowed to Morten. The yarns muft all be ftretched, and therefore ftrained; and thofe mult be the moft extended which are the fartheft from the middle yarn. Now allow the fledge to approach. The ftrand contracts in its general length, and thofe yarns contract moft which were moft extended. The remaining extenfion is thercfore diminifhed in all; but ftill thofe which are moft remote from the middle are moft extended, and therefore moft ftrained, and have the fmalleft remainder of their abfolute force. Unfortunately they are put into the moft unfavourable fituations, and thofe which are already moft ftrained are left the moft oblique, and have the greateft ftrain laid on them by any external force. But this is unavoidable: Their greateft hort is the ftrains they fuftain in the manufacture. When the ftrand is very large, as in a nineinch hawfer, it is almoft impoffible to bring the whole to a proper firmnefs for laying without ftraining the outer yarms to the utmoft, and many of them are broken in the operation.

The reader will remember that a two-ftrand line was laid or clofed merely by allowing it to twift itfelf up at the fwivel of the loper; and that it was the elafticity large ropee the trande it was the elaflicity of fouthat arifing from the twift of the yarn which praduced thisand are effect: and he would probably be furprifed when we



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Rope--
making. making.
faid, that, ir laying a larger rope, the ftcands are twifed in a direction oppofite to that of the firming. Since the tendency to clofe into a rope is nothing but the tendency of the ftrands to untwith, it would feem natural to twif the ftrands as the yarns were twifted before. This would be true if the elafticity of the fibres in a yarn produced the fame tendency to untwift in the frand that it does in the yarn. But this is not the cafe. The contraction of one of the outer yarns of a Itrand tends to pull the frand backward round the axis of the ftrand : but the contraction of a fibre of this yarn tends to turn the yarn round its own axis, and not round the axis of the ftrand. It tends to untwift the yarn, but not to untwift the ftrand. It tends to untwif the frand only fo far as it tends to contract the yarn. Let us fuppofe the yarn to be fpun up to one-half the length of the fibres. The contracting power of this yarn will be only one half of the force exerted by the fibres: therefore, whatever is the force neceffary for clofing the rope properly, the fibres of the yarns mult be exerting twice this force. Now let the fame yarn, fpun up to one-half, be made up in a frand, and let the ftrand be twifted in the oppofite direction to the fpinning till it has acquired the fame clalticity fit for laying. The yarns are untwifted. Suppofe to three fourths of the lengths of the fibres. They are now exerting only four thirds of the force neceffary for laying, that is, two-thirds of what they were obliged to exert in the other cafe; and thus we have flronger yarns when the ftrands are equally ftrained. But they require to be more ftrained than the other; which, being made of more twifted yarn, fooner acquire the elafticity fit for laying. But fince the elafticity which fits the firand for laying does not increafe fo faft as the Arain on the fibres of the yarn which produces it, it is plain, that when each has acquired that elafticity which is proper for laying, the ftrands made of the flack-twifted yarn are the ftrongeft; and the yarns are alfo the ftrongeft ; and being fofter, the rope will clofe betier.

Experience confirms all this; and cordage, whofe frands are twifted in the oppofite direction to the twift of fpinning, are found to be ftronger than the other in

Such being the difficulty of making a large frand, and its defects when made, we have fallen on a method of making great cordage by laying it twice. A haw-fer-laid rope, flack fpun, little hardened in the ftrands, and flack laid, is made a ftrand of a large rope called a cable or cablet. The advantages of this fabric are evident. The ftrands are reduced to one-third or one-fourth of the diameter which they would have in a hawfer of the fame fize. Such ftrands cannot have their yarns lying very obliquely, and the outer yarns cannot be much more ftrained than the inner ones. There muft therefore be a much greater equality in the whole fubflance of cable-laid cordage, and from this we fhould exsect fuperior ftrength.

Accordingly, their fuperiority is great, not lefs than in the proportion of 13 to 9 , which is not far from the proportion of four to three. $\Lambda$ cable is more than a fourth part, but is not a third part, ftronger than a hawfer of the Came fize or weight.

They are feldom made of more than three hawfers of three ftrands each, though they are fometimes made of three four. Pranded hawfers or of four threc-ArandNOL. XVIII. Part I.
ed. The fuift of thefe two is preferred, becaule fons Rope finall ftrands can be laid very clofe; whereas it is dif- mahing. ficult to lay well four hawlers, already become very hard.

The fuperiority of a cable-laid cordage being attributed entirely to the greater perfection of the frands, and this feeming to arife entirely from their fmallnefs, it was natural to expect tlill better cordage by laying cables as the ftrands of ftill larger pieces. It has been tried, and with every requifite attention. But although they have always equalled, they have not decitedly excelled, common cables of the fame weight; and they require a great deal more work. We flall not therefore enter upon the manipulations of this fabric.

There is only one point of the mechanical procefs of Diftribu-rope-making which we have not confidered minutely; tion of the and it is an important one, viz, the diflribution of the tenal Chortotal fhortening of the yarns between the hardening of the yarns the ftrands and the laying the rope. This is a point hetween about which the artifts are by no meags agreed. There the harden* is certainly a pofition of the Itrands of a laid rope which "It g of the puts every part in equilibrio ; and this is what an ela-laying the fic, but perfectly foft rope (were fuch a thing poffible), rope. would affume. But this cannot be difcovered by any experiments made on large or even on firm cordage; and it may not be thought fufficiently clear that the proportion which would be difcovered by the careful fabrication of a very fmall and foft line is the fame that will fuit a cordage of any diameter. We mult proceed much on conjecture ; and we cannot fay that the arguments ufed by the partifans of different proportions are very convincing.

The general practice, we believe, is to divide the whole of the intended fhortening of the yarns, or the working up into three parts, and to employ two of thefe in hardening the ftrands, and the remaining third in clofing the hawfer.

Mr Du Hamel thinks, that this repartition is injudi-Opimion cious, and that the yarns are too much ftrained, and and experithe ftrands rendered weak. He recommends to invert ments of this proportion, and to fhorten one-third in the harden. Du Hamel. ing of the ftrands, and two-thirds in laying the hawfer. But if the ftrain of the yarns only is confidered, one fhould think that the outfide yarn of a flrand will be more ftrained in laying, in proportion to the yarn of the fame frand, that is, in the very axis of the rope. We can only fay, that if a very foft line is formed in this way, it will not keep its twift. This ghows that the turns in laying were more than what the elafticity or hardening of the ftrands required. The experiments made on foft lines always fhowed a tendency to tike a greater twilt when the lines were made in the firll manner, and a tendency to lofe their twift when made in Mr Du Hamel's manner. We imagine that the true proportion is between thefe two extremes, and that tre fhall not err greatiy if we have the total thortening between the two parts of the procefs. If working up to two-thirds be infinted upon, and if it be really too much, Mr Du Kamel's repartition may be better, becaufe part of this working will quickly go off when the cordage is ufed. But it is furely better to be right in the main point, the total working up, and then to adjult the diftribution of it fo that the finilled cordage thall precie. ly keep the form we have given to it.
a Thore mula be the fame uncertainty in the quadruple

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\mathrm{Nn}
$$

dillribution

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Repemeling. $\xrightarrow{+}$
ditaibution of the worling up a cable. When a cable has its yarns fhortened to two-thirds, we believe the ordinary practice has been, 11, To warp 180 Fathoms; 2d, To harden up the ttrands 30 fathonss ; $3^{\text {d }}$, To lay or clufe up 13 fathoms; 4 th, To work up the lawfers nine fathoms; jth, To cule up eight fathoms. This leaves a cable of 120 . Since Mr Du Hameis experiments have had an inluence at liociefort, the praclice lias been to warp 190, to harden up 38 , to lay up 12 , to work up the hawfers 10 , and then to clofe up fix ; and when the cable is fnilhed, to fhorten it two fathoms more, which our worknen call throuving the turn well uj. This leaves a cable of 122 fathoms.

As there feems little doubt of the fuperiorily of cordage thortened one-foorth over cordage fhortened onethird, the following diltribution may be adopied : warp 190 fathoms, laarden up 12 , lay up 11, work up the hawfers 12, ard clofe up 12 more, which will leave a cable of 143 .

There is another queftion about which the artifts are divided in their opinions, viz. the flrains made uie of during the operation. This is F :oduced by the weight laid on the Aledge. If this ie too fmall, the ftrands will not be fufficientiy tightened, and will run in:o kinks. The fiedge witit come up by flarts: aid a fmall inequally of twiit in the ftrands wiil throw it alkew. The top will not run weil without a confiderable preffure to thiow it from the clofng point, ard therefore the coriage wini neithe: ciofe fair! y nor timoly ; on the other band, it is evident, that the frain on the ftrands is a complete expenditure of fo much of their force, and it may be fo great as to break them. Thefe are the extreme pofitions. And we think that it snay be fairly deciuced from our principles, that as great a fhain ffoo:13 be laid on the firands as will make good work, hat is, as will emable the rope to cloie nenriy and compiete!'s, but no more. But can any general rule be given for this purpofe?

The practice at Rochefort was to load the fledge tiil its weight and load were doutle the weight of the jarns when warped $\mathbf{1 8 0}$ fathous. A fix-inch bawfer will require about a ton. If we fuppofe the fichion one-third of the weight ; the ftrein on each ftrand will be about two hundred and a quarter weight. Mr Du Hamel thinks this too great a load, and propofes to put only five-fourths or three-feconds of the weight of the cordage; and fill lefs if a fhorter picce be warped, becaufe it docs not require fo much force to throw the twiff from the two cranks to the midule of the frand. We fuall only fay, that ftronger ropes are made by beavy landing the carriage, and working up moderately, than by greater fhortening, end a lighter load; but all this is very vague.

Geveral rule for computing the firength of cordage.

The reader will naturally a Bk , after this account of the manufacture, what is the general rule for computing the Arength of cordage? It cannot be expected to be vety precife. But if ropes are made in a manner perfecily fimilar, we Gould expect the firength to te in proportion to the area of their fection; that is, to the fquare of their diameters or circumferences, or to the sumber of equal threads contained in thern.

Nor does it deviate far from this rule; yet Mr Du Hamel flows, from a range of experiments made on all cordage of $3 \frac{1}{2}$ inch circumference and under, that the flength increafes a litle faller than the number
of equal thieads. Thus he found that ropes of 9 threads bore $1=14$ pounds, inttead of $94^{6}$

| 12 | 1567 | 1262 |
| :--- | :--- | :--- |
| 18 | 2148 | 1893 |

We cannot pretend to account for this. We muft allo obferve, that the firength of cordage is greatly improved by making them of yarn fpun fine. This requires finely dreffed hemp; and being more fupple, the fibres lie clofe, and do not form fuch oblique fpirals. But all hemp will not $f_{\text {pin }}$ equally fine. Every hlalk feems to contiat of a certain number of principal fibre:, which tplit more eafily into a fecond fet, and thefe more difficultly isito a third fet, and fo on. The ultimate finenefs, therefure, which a reafonable degree of dreffing can give to hemp, bears fome propoxtion, not i deed very precife, to the fize of the lhalk. The Britills and Dutch ufe the beft hemp, fyin their yarn the finett, and their cordage is confiderably fleonger than tlee French, much of which is made of their crm hemp, and others of a coarfe and harf: quality.

The following, rule For judging of the weight which a rope will tear is not far from the uruth. It fuppofes them rather too itrong; but it is fo eafily remewivered that it may be of ufe.

Multiply the circunference in sackes by itfelf, aul take the fifih part of the product, it will exprefs tie tuns which the roje will carry. Thus, if the rope have fix inches circumference, 6 times 6 is $3^{6}$, the lifith os which is $7^{\frac{1}{5}}$ tons; app'y this to the tope of $3 \frac{2}{3}$, c:: which Sir Charles Krowles made the experiments E. . merly mationed, $3 \frac{3}{3} \times 3 \frac{1}{6}=10.25, \frac{1}{5}$ of which is 2. . $\xi$ tons, or $459^{2}$ pounds. it broke with 4550 .

Turs may fuffice for an account of the mechanical of tine - ${ }^{32}$. part of the manufacture. Dut we have taken no notice and .... of the operation of tarring; and our reaton was, thit fece ca: $=$ tbe methods praciled in different rope works are to ex- me stit . 6 cecdingly dirierent, that we could hardly enumerate ripes. them, or even give a general account of them. It is evidently proper to tar in the fate of twine or yar:1, this bcing the only way that the hemp could be uniformly penetrated. The yarn is made to wind off one reel, and having paficd through a velfel containing bot tar, it is wound up on another reel; and the fuperlinous tirr is taken off by paffing through a hole furrounded with fpongy oakum ; or it is tarred in Nains or lauls, which are drawn by a captern through the tar-kettle, and through a hole formed of two plates of metal, heid togcther by a lever loaded with a weight.

It is eltablified beyond a doubt, that tarred cordage when new is weaker than white, and that the difference increafes by keeping. The following experiments were made by Mir Du Hamel at Rocheforl on cerdage of three inches (French) in circumference, miade of the beft Riga hemp.

| Augut 8. 1741. |  |
| :---: | :---: |
| White. | Tarral. |
| Broke with | 4500 pounds. |
| 4900 | 3400 pounds. |
| 4500 | 2300 |
| Apill $25 \cdot 1743$ |  |
| 4600 | 3500 |
| 5200 | 3400 |
| 5000 | $3+00$ |

Suptember


Mr Du Hamel fays, that it is decided by experience, 1. That white cordage in continual fervice is one-third more durable than tarred. 2. That it retains its force much longer while kept in flore. 3. That it refilts the ordinary i. uries of the weather one-fourth longer.

We know this one remarkable fact. In 1758 the flurouds and fiays of the Skeer hulk at Portimouth dockyard were overhawled, and when the worming and ferwice were taken off, they were found to be of white cordage. On examining the forekeeper's books, they were fousd to have been formerly the hlirowis and rigging of the Roval William, ito guns, built in 1715 , and riggod in 1716 . She was thought top-heavy and unfit for fea, and unigged and her ftores laid up. Some few years afterwards, her fhrouds and fays were fitted on the Shiecr hulk, where they remained in conflant and very hard fervice for about 30 years, while every tarred roye about her had been repeatecly remewed. This information we received from Mr Brow:, boatfwain of the Royal William during the war 1758 , \&c.

Why then do we tar cordage? We thus render it more umpliant, weaket, and lels durable. It is chicfly ferviceable for cables and ground tackle, which muft be continually wetied and even foaked. The refult of careful obfervation is, I. That white cordage, expofed to be ahernately very wet and dry, is weaker than tarred cordage. 2. That cordage which is fuperficially taired is conflantly ffronger than what is tarsed throughout, and it refints better the alternatives of wet and dry. N. B. The flrouds of the Sheer hulk were well tarred and blacked, fo that it was not known that they were of white cordage.

Tar is a curious fubtance, mifcible completely with water. Attempts were made to anoint cordage with oils and fats which do not mix with water. This was expected to defend them from its pernicious effetts. But it was diffingly found that thefe natters made the fibres of hemp glide fo eafily on each other, that it was hardly poffible to tuift them permanently. Before they grafped each other fo hard that they could not be drawn, they were frained almof to breaking.

Attempts have been made to increafe the firength of cordage by tanning. But though it remains a conflant practice in the manufacture of nets, it does not appear that much addition, either of ftrength or durabiliy, can be given to cordage by this means. The trial has been made with great care, and by perfons fully able to coneuct the procefs with propriety. But it is found that
the yarm iake is iong time in drying, ard are fo math hurt by drying tlowly, that the room requirsd fur a coafiderable rope-work nould be immenfe; and the improvement of the curdage is bui triting, and even eque.

[^8] rocal. Indeed taining is a chemical procefs, and is: effects depend entireiy on the nature of the rateria to which the tan is applied. It unqueflis ably condenkes, and even ifrengthens, the fibre of leather: tat for any thing that w know a priori, it may deltruy the colicfion of hemp and tlax; and experiment alone c uld decide the quetion. The refult has been unfasourable; but it does not follow from this that a tan cemnot be found which flall produce on the texture of vegetables effects finilar to what oak-bark and other aftingents produce on the animal fibre or membrane. Jt is well known that furme dyes increafe the flreng'h of flax and cotton, notwithitanding the corrotion which we hnow to be produced by fome of the ingredients. This is a fubject highly worth the attention of the chermitt and the patriot.

## Rope-Dancer. See Rope-Dincer.

ROPE-Zarn, among failors, is the yarn of any rope untwificd, but commonly made up of jurk; ; its uie is to riake linnet, matts, \&c.

ROQUET. See Rocker.
ROKIDULA, a genus of plants beionging the pentandria clafs. See Botany Irdex.

ROS $\Lambda$, the ROSE; a genus of plants belonging to the icolandria clafs; and in the natura! method ranking under the $35^{\text {th }}$ order, Senticofe. See Botixy Indew.

The forts of roies are very numerous; and the bot..nifts find it very difficult to determine with ascuracy which are fpecies and which are varieties, as well as which are varieties of the refpective fpecies. On this account Linneus, and fome other eminent authore, are inclired in think that there is only one real fpecies or rofe, thicit is the rofa canina, or " dog rofe of the hedges, \&ic. and that all the other forts are accidental varieties of $i^{i}$. However, according to the prefent Linneariarrangenen:, they itand divided into 14 fuppofed fpeciec, excin comprehending varieties, which in fome forts are but fox, is others numerous.

The fuppofed fpecies and their varieties aeco-ding to the arrangement of modern botanilts, are as follows:
I. The cavina, canine rofe, wild dog-rofe of the bedges, or hep-tree, grows five or fix feet high, having prickly falks and branches, pinnated five or fevenioi ed leaves, with aculeated foot-ftalks, fmontio peobin* culi, oval fmooth germina, and fmall fingle flowers. There are two varieties, red-flowtered and while iower. ed. They grow wild in hedges abundartly all over the kingdom; and are fometimes arlmitted into ara dens, a few to increafe the variety of the inrubbery collection.
2. The alba, or common white rofe, grows five or fis feet high, having a green them and branches, armed with prickles, hifpid pedunculi, oval fmonth germina, and large white flowers. The varieties are,-large double whic rofe-dwarf fingle white rofe-maidens-blufh white rofe, being large, produced in clufters, of a white and blufared colour.
3. The Gallica, or Gallican rofe, \&ec. grows from about three or four to eight or ten feet high, in dificr. ent varieties, will pinnsed, three, five, or feven-loled leaves, and large red and other colc-sed farers in dif-

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Refa. fricullotis, This feecics is very exienfive in fuppofed varietes, beariag the above \{pecific diftinction, fevetal of which wave been formerly confidered as dittinct fuectes, but aze flow ranged among the varicties of the. Gallican rofe, conmitints of the following noted varieties.

Common red officinal rofe, grows ereet, about thzee or four feet high, haring fmall branches, with but fciv prickles, and large fpreading halî-double deep-red Howers.-Rofa mundi (rofe of the world) or Ariped red rofe, is a variety of the common red rote, growing but three or four fect high, having large foreading femidouble red flowers, beautifufly fuiped with white-and deep red.-York and Lancaller variegated role, grows five, fix, or eight feet high, or more; beaing variegated red flowers, confiting of a misture of red and white; alfo frequently dipofed in elegant fripes, formetimes in half of the flower, and fometimes in fome of the petals.- Monshly rofe, grows about four or five feet high, with grcen very prickly fhoats; producing middle-fized, moderately-double delicate flowers, of different colours in the varieties. The varieties are, common red-flowered monihly rofe-blufh-flowered -white-flowered-Atriped-Howered. All of which blow both early and late, and often produce flowers feveral months in the year, as May, June, and July; and frequently again in Auguf or September, and fometimes, in fine mild feafons, continues till November or December: hence the name monthly rofe.-Double virginrole, grows five or fix feet ligh, having greenilh branches with fcarce any finines; and with large double palered and very fragrant flowers.-Red damafk rofe, grows eight or ten feet high, having greenifh branches, armed with fhort aculea; and moderately-double, fine foft-red, very fragrant flowers. - White damak rofe, grows eight or ten feet ligh, with greenifh very prickly branches, and white-red foivers, becoming gradually of a whiter colour.-Blufh Belgic rofe, grows three or four feet Ligh, or more; having greenilh prickly branches, five or feven lobed leaves, and numerous, very double, bluthred flowers, with fhort petals, evenly arranged.-Red Belgic rofe, having greenifh and red fhoots and leaves, and fine double deep-red fiowers.-Velvet rofe, grows three or four feet high, armed with but ferv prickles; producing large velvet-red tlowers, comprifing femi-double and double varicties, all very beautiful rofes.-Marbled rofe, grows four or five feet high, having brownifh branches, with but few prickles; and large, double, fusely-marbled, red flowers.-Red-and-yellow Auflrian rofe, grows five or fix feet high, having flender reddifhbranches, armed with fhort brownifh aculea; and with flowers of a reddifh copper colour on one fide, the other fide yellow. This is a curious variety, and the flowers affunse a fingularly agreeable appearance.-Yellow Aufirian rofe, grows five or fix feet high, having reddifh very prickly fhoots; and numerous bright-yellow flowers. - Double yellorv rofe, grows fix or feven feet high; with brownilh branches, armed with numerous large and fmall yellowih prickles; and large very double yellow flowers.- Trankfort rofe, grows cight or ten feet high, is a vigorous fhooter, with brownifh branehes thinly armed with frong prickles; and produces largilh double purplith-red flowers, that blow itregularly, and have but little fragrance.
4. The centifolia, or hundred-leaved red rofe, \&c. fin完 from about threc or four to fix or eight feet
high, in difiercat forts, ail of them hifpid and prickiy; pinmated three and fire lobed leaves; and large very double red flowers, having very numerous petals, and of different fhades in the varieties. The vaiteties are, - cormon Dutch bundred-leaved role, grons three or four foct high, with erect greenilh branches, but moderately ammed with prickles; and large remathably double red flowers, trith thort regularly arranged petals. -Bluth hundred-leaved role, grows like the other, with large very double pale-red tlowers.- Provence rofe, grows five or fix feet, with greenifh brown prickly branches, and very large duible globular red flowers, vith large petals folding over one another, more or lefs in the varicties. - The varieties are, common red Provence rofe, and pale Provence rofe; both of which ha.. ving larger and fomewhat loofer petals than the following fort.-Cabbage Provence rofe; having the petals clofely folded over one another like cabbages.Dutch cabbages rofe, very large, and cabbage tolerably. -Childing Provence rofe-Great royal rofe, grows fix or eight feet high, producing remarkably large, fomewhat loofe, but very elegant flowers.-All thefe are large ciouble red flowers, fomewhat globular at firt blowing, becoming gradually a little fpreading at top; and are all very ornamental fragrant roles.-Mofs Pıovence rofe, fuppofed a variety of the common rofe; grows erectly four or five feet high, having brownifh thalks and branches, very clofely armed with ihort prickles, and double crimfon-red flowers; having the calyx and upper part of the peduncle furrounded with a rough moffy-like fubftance, effecting a curious fingularity. This is a fine delicate rofe, of a high fragrance, which together with its mofly calyx, renders it of great eftimation as a curiofity.
5. The cinnamomea, or cinnamon rofe, grows five or fix feet high, or more, with purplifh branches thinly aculeated; pinnated five or feven lobed leaves, having almoft inermous pelioles, fmooth pedunculi, and fmooth globular germina; with fmall purplifh-red cinnamonfcented flowers cally in May. There are varieties mith double flowers.
6. The Alpina, or Alpine inermous rofe, grows five or fix feet high, having fmooth or unarmed reddilh branclics, pinnated feven-lobed fmooth leaves, fomewhat hifpid pedunculi, oval germina, and deep-red fingle flowers; appearing in May. This fpecies, as being free from all kinds of armature common to the other forts of rofes, is efteemed as a ingularity; and from this property is often called the virgin rofe.
7. The Carolina, or Carolina and Virginia rofe, \&<c. grows fix or eight feet high, or more, having fmooth reddifh branches, very thinly aculeated; pinnated fevenlobed fmooth leaves, with prickly foot-ftalks; fomewhat hifpid pedunculi, globole hifpid germen, and fingle red flowers in clufters, appearing moftly in Augult and September. The varieties are, dwarf Pennfylvanian rofe, with fingle and double red flowers-American pale-red rofe. This fpecies and varieties grow naturally in different parts in North America; they effect a fine variety in our gardens, and are in eftimation for their lateflowering property, as they often continue in blow from Augutt until October; and the flowers are fucceeded by numerous red berry-like heps in autumn, caufing a varicty all winter.
8. The villofa, or villofe apple-bearing rofe, grows

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Rifa fix or eight feet high, having frong erect brownifl froooth branches; aculeated fparfedly pimated fevenlobed villofe or hairy leaves, downy underneath, with prickly foot-ltalks, hifpid penduncles, a globular prickly germen; and la:ge fingle red floners, fucceeded by large round nrickly heps, as big as iittle apples. This feecies merils adrittance into every collection as a curiofity for the fingularity of its fruit, both for varicty and ufe; for it having a thick pulp of an agrocable acid relift, is often mide into a tolerable good fweetmeat,
9. The pimpinellifolia, or burnet-ieaved rofe, grows about a yard high, aculeated fparídly; fmall neatly pinnated feven-loled leaves, having obtufe folioles and rough petioles, finooih penducles, a globular finooth gernen, and frall fingle flowers. There are varieties with red flowers-and with white Howers. They grow wild in England, \&ic. and are cultivated in fhrubberics for variety.
10. The fpinofiltima, or moft fpinous, dwarf burnetleaved role, commonly called Scotch rofe, grows but two or thrce feet high, very clofely armed with fpines; finall neatly pinated feven-lobed leaves, with prickly fooi-ftalks, prickly pendunculi, oval fmooth germen, and oumerous fmall fingle flowers, fucceeded by round darkpurple heps. The varieties are, common white-flowered -red-flowered- ftriped-llowered-marbled flowered. They grow naturally in England, Scotland, \&c. The firft variety rifes near a yard high, the others but one or two feet, all of which are fingle-flowered; but the flowers being numerous all over the branches, make a pretty appearance in the collection.
11. The eglanteria, eglantine rofe, or fweet-briar, grows five or fix feet high, having green branches, armed with ftrong fpines Iparfedly; pinnated fevenlobed odoriferous leaves, with acute folioles and rough foot-ftalks, fmooth pedunculi, globular fmooth germina, and fmall pale-red flowers. The varieties are, common fingle-flowered-femi-double flowered-double fluwered -blufh double-flowered-yellow-flowered. This fpecies grows naturally in fome parts of England, and in Switzerland. It claims culture in every garden for the odoriferous property of its leaves; and fhould be planted in the borders, and other compartments contiguous to walks, or near the habitation, where the plants will impart their refrefhing fragrance very profufely all around ; and the young branches are excellent for improving the odour of nofegays and bow pots.
12. The mofchata, or muft-rofe, fuppofed to be a variety only of the ever-green mufkrofe, hath weak fmooth green flalks and branches, rifing by fupport from fix to eight or ten feet high or more, thinly armed with frong fpines; pimated feven-lobed fmooth leaves, with prickly foot-ftalks; hifpid peduncles; oval hifpid germen; and all the branches terminated by large umbellate clufters of pure-white muk-feented flowers in Auguft, \&c.
13. The fempervirens, or ever-green mufk-rofe, hath a fomewhat trailing ftalk and branches, rifing by fupport five or fix feet high or more, having a fmooth bark armed with prickles; pinnated five-lobed fmooth thining evergreen-leaves, with prickly petioles, hifpid pedunculi, oval hifpid germen; and all the branches terminated by clufters of pure-white flowers of a mulky fragrance ; appearing the end of July, and in Auguft. The femper-
virent property' of this c'egant fpecies renders it a curiofly among the rofy tibe; it alfo makes a fine appearance as a flowering flirub. There is one variety, the decicuous mufk-rofe above-mentioned. This feecies and variety flowers in Auguft, and is remarkable for producing them numeroully in clufters, continuing in Jucceffion till Ostober or November.

The above 13 fpecies of rofa, and their refpeclive vaieties, are of the thrub-kind; all deciduous, except the laft fort, and of hardy growth, fucceeding in any common foil aad fituation, and flowering annually in great abundance from May till October, in different forts; though the general flowering feafon for the principal part of them is June and July: but in a full collection of the different fpecies, the blow is continued in conflant fucceffion feveral months, even lometimes from May till near Chritmas; producing their flowers univerfally on the fame year's thoots, rifing from thole tho year before, generally on long pedunculi, each terminated by one or more rofes, which in their charactcriftic fate confift each of five large petals and many ftamina; but in the doubles, the petals are very numcrous; and in fome forts, the flowers are fucceeded by fruit ripening to a red colour in autumn and winter, from the feed of which the plants may be railed; but the moft certain and eligible mode of propagating moft of the forts is by fuckers and layers; and by which methods they may be increafed very expeditioufly in great abundance.

The white and red rofes are ufed in medicine. The former diftilled with water yields a fmall pertion of a butyraceous oil, whofe flavour exactly refembles that of the roles themfelves. This oil and the diftilled water. are very ufeful and agreeable cordials. Thefe roles alfo, befides the cordial and aromatic virtues which refide in their volatile parts, have a mild purgative one, which remains entire in the decoction left after diltillation. The red rofe, on the contrary, has an aftringent and gratefully corroborating virtuc.

ROSA, Salvator, au admirable painter, born at Naples in 1614. He was firf inftructed by Francefco Francazano, a kinfman : but the death of his father reduced him to fell drawings 0ketched upon paper for any thing he could get; one of which happening to fall into the hands of Lanfranc, he took him under his protection, and enabled him to enter the fchool of Spagnoletto, and to be taught moreover by Daniel Falcone, a diftinguifhed painter of battles at Naplest Salvator had a fertile imagination. He ftudied nature with attention and judsement ; and always reprefented her to the greatell advantage : for every tree, rock, cloud, or fituation, that enters into his compofition, fhows an elevation of thought that extorts admiration. He was equally eminent for painting battles, animals. fea or land ftorms; and he exccuted thefe different fubjects in fuch tafic as renders his works readily difinguiflable from all others. His pieces are exceedingly fearce and valuable; one of the moit capital is that reprefenting Saul and the witch of Endor, which was. preferved at Verfailles. Ife died in 1673 ; and as his paintings are in fow hands, he is more generally known by his prints, of which he etched a great number. He, painted landicapes more than hiftory; but his prints are chicfly hiftorical. The capital landfcape of this

Ruvin mafter át Chifixick is a noble pitture. However, he is Rofamond. Rofamond. faid to have been igmorant of the management of light, and to have fometimes thated faces in a difagreeable man-
ner. He was however a man of undoubted genius; of which he has given freguent fpecimens in his works. A roving difpoition, to which he is faid to have given full fcope, feems to have added a wildnefs to all his thoughts. TWe are told that he fpent the early part of his life in a troop of banditti; and that the rocky defolate feenes in which be was accuftomed to take refuge, furnithed him with thofe romantic ideas in land?cape, of which he is fo exceedir gly fond. and in the defcription of which be fo greatly excels. His robbers, as his detached figures are cotamonly called, ain fuppofed alfo to have been taken from the lite.

Salvator Rofa is fufficiently known as a painter; but he is litie known as a muiciar. Among the mufical manuferipts purchafed at Rone by Dr Burney, was a mufic book of Salvator, in whech are many airs and cantatas of diffierent mafters, and eight entire caniatas, written, fet, and tranferibed by this celebrated painter himfelf. From the fpecimen of his talents for mufic here given, we make no fcruple of declaring, that te had a truer genius for this fcience, in point of melody, than any of his predeceffors or cotemporaries: there is alfo a flrength of exprefion in his verfes, which fets him far above the middle rank as a poet. Like moft other artifts of real original merit, be complains of the ill ufage of the world, and the difficulty he finds in procuring a bare fubfifience.

ROSACEA. See Gutta Refacea.
ROSACEOUS, among botanifts, an appellation given to fuch flowers as are compofed of feveral petals or leaves difpofed in a fort of circular ferm, like thofe of a rofe.

ROSAMOND, daughter of Walter Lord Clifford, was a young lady of exquifite beauty, fine accomplifhments, and blefled with a moft engaging wit and fweetnefs of temper. Shee had been educated, according to the cuftom of the times, in the numnery of God.łow ; and the popular flory of her is as follows: Henry II. faw her, loved her, declared his paffion, and triumphed over her hotiour. To avoid the jealoufy of bis queen Elinor, he kept her in a wonderfal labyrinth at Woodflock, and by his conneEtion with her had William Longfword earl of Saliftury, and Geoffrey bifop of Lincoln. On Henry's abfence in France, however, on account of a rebellion in that country, the queen found means to difoover her, and, though fruck with her beauty, fie recalled fuffeient refentment to poifon her. The cqueen, it is faid, difcovered her anartment by a thread of filk; but how fhe came by it is differently related. This popular flory is not however fupported by hifory ; feveral writers scention no more of her, than that the queen fo vented her fillecr. on Rofamond as that the lady lived not long after. Other miters affert that the died a natural death; and the fory of her being poifoned is thought to have arifen from the figure of a cup on her tomb. She wns buried in the church of Godflow, oppofite to the high altar, where her body remained till it was ordered to be removed with every mark of difgrace by Hugh bithop of Eincoln in 129r. She was, however, by many confidered as a faint after her death, as appenrs from an infeription on a crofs which Leland fays finod near Godflew :

Qui meat hite oret, fignum faiutis adoret, Uique fili detur veniams. İ'amanda prectilur.
And alfo by the following itory: Rofamond during her refidence at her bower, made feveral vints to GodC/s An flow; where being frequently reproved for the lite fine tiquitie of led, and threatened with the confequences in a future flaie, the always antwered, that the knew the thould vod ivales, be faved; and as a token to them, hhowed a tree which p. 176, \&cc. the faid would be turned into a ftone when the was with. the faints in heaven. Soon after her death this wonderful metamorphofis happened, and the fone was fhown to ftrangers at Godftow till the time of the diffolution.

ROSARY, among the Roman Catholics. See ChapLET.

ROSBACH, a town of Germany, in Saxony, famous for a victory obtained here by the king of Pruffia over the French, on November 5. 1757, in which 10,000 of the French were killed or taken prifoners, with the lofs of no more than 500 Pruffians. See PrusSIA, $\mathrm{N}^{\circ} 30$.

KOSCHILD, a town of Denmark, in the ille of Zealand, with a bifhop's fee and a fmall univerfity. It is famous for a treaty concluded here in $16 ; 8$; and in the great church there are feveral tombs of the kings of Denmark. It is feated at the bottom of a fmall bay, in E. Long. 12. 20. N. Lat. 55. 40.

ROSCOMMON, a county of Ireland, in the province of Connaught, bounded on the weft by the river Suc, on the eaft by the Shannon, on the north by the Curlew mountains, on the fouth and fouth-eaft by the King's county and part of Galway. Its length is 50 miles, its breadth 28 . The air of the county, both on the plains and mountains, is healthy; the fcil yields plenty of grafs with fome corn, and feeds numerous herds of cattle. The Curlew mountains on the north are very high and fteep; and, till a road with great labour and difficulty was cut through them, were impalfable. This county contains 59 pariffes, and formerly fent eight members to parliament.

Roscommon, which gives the title of earl to the family of Dillon, and name to the county, though not large, is both a parliamentary borough, and the county town.

Rosccman, Wentworth Dillon, Earl of, a celebrated port of the 17 th century, was the fon of James Dillon earl of Rofcommon ; and was born in Ireland, under the adminiftration of the frit earl of Strafford, who was his uncle, and from whom he reccived the name of Wentworth at his baptifm. He paffed his infancy in Ireland; after which the earl of Straford fent for him into England, and placed him at his cwn feat in Yorkfhite, under the tuition of $\mathrm{D}_{\mathrm{t}} \mathrm{Hall}$, afferwards hifhop of Norwich, who innructed him in Latin, without teaching lim the common rules of granimar, which lie could neter retain in his memory, and ret he learn: to write in that language with claffical elegance and propriety. Cn the carl of Strafford's being imperched, he went to complete his education at Caen in Normandy; and after fome years travelled to Siome, whete he hecame acquainied with the moft valiable remain of anticuity, and in particular w:s well fkilled in medals, and leamed to freak Italian with foch grace and Huer© $v$, that he was frequently taken for a native. He re-
turned
2. ferm- tirned to England foon after the Reforation, and was 5uon. maje captaia of the band of penfioners ; but a difpule with the lu:d privy-ical, about a part of his cftate, obliged him to relign his pult, and revigt his native country, where the duke of Ormond appoinied him captain of tive guards. He was unthappiiy very fond of gaming; and as be was returning to bis lodgings from a gaming. table in Dablin, he was attacked in the dark by three ruthans, who were employed to affaffinate him. The earl de.ended himfelf with luch refolution, that he had dilpatched one of the aggreffors, when a gentleman paffing that way took his part, and difarmed another, on which the third fought his lafety in fight. This renesous affillant was a difbanded officer of good famity and fair reputation, but reduced to poverty; and his lordfiip rewarded his bravery by refiguing to him his post of captain of the guards. He at length returned to Loncion; when he was made mafter of the horfe to the duchefs of York, and married the lady Frances, eldeft daugtiter of Ric, ard earl of Burlington, who had been the wire of Colonel Courtney. He here dillinguiked himfelf by his writings; and in imitation of thole learned and polite afemblies with which he had been acquainted abroad, began to form a fuciety for refning and fixing the ftandard of the Englifh language, in which his great fiend Mr Dryden was a principal affiltant. This fcheme was entirely dcfeated by the religions commotions which enfued on King James's acceffion to the tbrone. In 1683 he was feized with the gout; and being too impatient of pain, he permitted a bold French empiric to apply a repelling medicine, in order to give him prefent relief; this drove the diflemper into his bowels, and in a fhort time put a period to his life, in January 1684. He was buried with great pomp in Weltminiter-abbey.

His poems, which are not numerous, are in the body of Englifis poetry collected by Dr Johnfon. His "Effay on Tranflated Verfe," and his tranilation of "Horace's Art of Puetry," have great merit. Waller addreffed a poem to his lordilip upon the latter, when be was 75 years of age. "In the writings of this nobleman we view (fays Fenton) the image of a mind naturally ferious and folid; richly furnithed and adorned with all the ornaments of art and fcience; and thofe ornaments unaffectedly difpofed in the moft regular and elegant order. His imagination might probably have been more fruitful and fprightly, if his judgement had been lefs fevere; but that leverity (delivered in a malculine, clear, fuccinct ftyle) contributed to make him fo eroinent in the didactical manner, that no man, with fufice, can affirm he was equalled by any of our nation, wishout confeffing at the fame time that he is inferior to none. In forre other kinds of writing his genius feems to have wanted fire to attain the poist of perfection; but wbo can attain it? He was a man of an amiable difpofition, as well as a good poet; as Pope, in his 'Eflay on Criticifm,' hath teflified in the following lines:

> Rofcommon not more learn'd than good,
> With manners gencrous ae his nobl- blood;
> To lim the wit of Grece and Tirme was known, And every author's merit but his owna."

We mut allow of Rofonmon, what Fenton has not mentioned fo diftinslly as be ought, and, what is yet
very much to his honour, that be is perhaps the only correct writer in velie before Addifon; and that, if there are not fo many or fo great beautics in his compofitions as in thole of fome contemporajes, there are at kall fewer faults. Nor is this his Lignett praife ; lor Pope has celebrated him as the only moral writer of King C'inarles's reign :

Unhappy Dryden! in all Charles's d.ys,
Roicommon only boaits unfpotted lays.
Of Rofcommon's works, the judgement of tise public feems to be right. He is elegant; bui not great ; be never labours after exyuifite veauties, snd he feldon fails into grofs faults. ILis verlitication is fmooth, bist rarely vigorous, and his rhymes are remarkabiy exact. He improved taite, i: he did not enlarge hnowledze, and may be numbered among the betielacturs to Engicit literaiure.

ROSE, in Botany. See Rosa. Eyience of Roses. Sue Rases, Otter of.
KOSE of Jericho, fo called becaule it grows in the plain of Jericho, though it did not originally grow thers It has perhaps been to named by travelleas who did not know that it was brought from Arabia Petroea. Roie bathes are frequeatly found in the fields about Jericho: but they are or a fyecies much iuferior to thole fo much extolled in Scripture, the flowers of which fome naturalifls pretend to have in their cabinets.
" The rofe fhrub of Jericho (iays Mariti) is a fmall plant, with a buihy roat, about an inch and a half in length. It has a number of ftems which diverge from the earth: they are covered with few leavcs; but it is loaded with flowers, which appear red when in bud, turn pales as they expand, and at length become white entirely. Thele flowers appear to me to have a great refemblance to thafe of the elder-tree; with this difference, that they are entirely deftitute of fmell. The flems never rife more than four or five inches from the ground. This farub theds its leaves and its flowers as it withers. Its branclies then bend in the middle, rnd, becoming entwined with each other to the top, form a kind of globe. This happens during the great heats; but during moitt and rainy weather they again open and expand.
"In this country of ignorance and funerfition, pegple do not judge with a philofophical eye of the aiternate flutting and opening of this plant: it appears to them to be a periodical miracle, which heaven operates in order to make known the erents of this world. The iahabitants of the ncighbouring cantons come and. examitue thefe fhrtabs when they are about to undertake a journey, to form an alizance, to conclude any aftair of impartance, or on the birth of a fon. If the ftems of the plants are open, they do not doubt of fuccefs; but they account it a bad omen to fee them fhut, and therefore renounce their project if it be not too late.
"This plant is neither fubject to rot nor to wither. It sill bear to be tramiplanted; and thrives without degenerating in any kind of forl whatever."

Roses, Otcer or efiential ail oft, is obtuined from rofes by fimple difitilation, and may be made in the following mannes: A quantity of frefle rofes, for example 40 pounds, are prit in a filll with 60 pouncto of w : $\%$, the rofes being left as they aic with their calyzes, but


Rufe. with the ftems:cut clofe. The mafs is then well mixed together with the hands, and a gentle fire is made under the ftill; when the water begins to grow hot, and fumes to rife, the cap of the ftill is put on, and the pipe fixed; the chinks are then well luted with pafte, and cold water put on the refrigeratory at top: the receiver is alfo adapted at the end of the pipe; and the fire is continued under the ftill, neither too violent nor too weak. When the impregnated water begins to come over, and the Itill is very hot, the fire is leffened by gentle degrees, and the diftillation continued till 30 pourds of water are come over, which is generally done in about four or five hours; this rofe-water is to be poured again on a frefl quantity ( 40 pounds) of rofes, and from 15 to 20 pounds of water are to be drawn by diftillation, following the fame procefs as before. The rofe-water thus anade and cohobated will be found, if the rofes were good and frefh, and the diftillation carefully performed, highly fcented with the rofes. It is then poured into pans either of earthen ware or of tinned metal, and left expofed to the frefh air for the night. The otter or efSence will be found in the morning congealed, and fwimming on the top of the water; this is to be carefully feparated and collected either with a thin fhell or a $\mathbb{k} i m m e r$, and poured into a vial. When a certain quantity has thus been obtained, the water and feces muft be feparated from the clear effence, which, with refpect to the firf, will not be difficult to do, as the efSence congeals with a llight cold, and the water may then be made to run off. If, after that, the effince is kept fluid by heat, the feces will fubfide, and may be feparated; but if the operation has been neatly performed, thefe will be little or none. The feces are as highly perfumed as the effence, and muft be kept, after as much of the effence has been fimmed from the rofewater as could be. The remaining water fhould be ufed for frefh diftillations, inftead of common water, at leaft as far as it will go.

The above is the whole procefs, as given in the Afia-
picked and freed from the feeds and ftalks; and as much lpring water as will cover them being poured into the veffel, it is fet in the fun in the morning at funrife and allowed to fland till the evening, when it is removed into the houfe for the night. In the fame way it is to be expofed for fix or feven days fucceffively. At the end of the third or fourth day a number of particles of a fine yellow oily matter is feen floating on the furface. Thefe particles in the courfe of two or three days more collect into a fcum, which is the otter of rofes. This is taken up by means of cotton tied to the end of a piece of flick, and fqueezed with the finger and thumb into a fmall phial, which is immediately well ftopped; and this is repeated for fome fucceffive evenings, or while any of this fine effential oil rifes to the furface of the water.

It is faid that a few drops of this effential oil have at different times been collected in the city of London by diftillation, in the fame manner as thofe effential oils which are obtained from other plants.

ROSE-Noble, an ancient Englifh gold coin, firt ftruck in the reign of Edward III. It was formerly current at 6 s .8 d . and fo called becaufe ftamped with a rofe. See Money.

Rose-Wood. See Aspalathus, Botany Index.
ROSE'TTO, or Rosetta, a town of Africa, in E. gypt, is pleafantly fituated on the weft fide of that branch of the Nile called by the ancients Bolbitinum, affirmed by Herodotus to have been formed by art; the town and caftle being on the right hand as you enter that river. Any one that fees the hills about Rofetto would judge that they had been the ancient barriers of the fea, and conclude that the fea has not loft more ground than the face between the hills and the water.

Rofetto is efteemed one of the pleafanteft places in Egypt ; it is about two miles long, and confifts only of two or three ftreets. The country about it is moft delightful and fertile, as is the whole Delta on the other fide of the Nile, exhibiting the moft pleafant profpect of gardens, orchards, and corn-fields, ex. cellently cultivated. The caftle ftands about two miles north of the torm, on the weft fide of the river. It is a fquare building, with round towers at the four corners, mounted with fome pieces of brafs cannon. The walls are of brick, cafed with ftone, fuppofed to have been built in the time of the holy war, though fince repaired by Cheyk Begh. At a little diftance lower, on the other fide of the river, is a platform, mounted with fome guns, and to the eaft of it are the falt lakes, from which great quantities of that commodity are gathered. At fome farther diftance, failing up the river, we fee a high mountain, on which ftands an old building that ferves for a watch-tower. From this eminence is difcovered a large and deep gulf, in form of a crefcent, which appears to have been the work of art, though it be now filled up, and difcovers nothing but its ancient bed. Rofetto is a confiderable place for commerce, and hath fome good manufactures in the linen and cotton way; but its chief bufinefs is the carringe of goods to Cairo, all the European merchandife being brought thither from Alexandria by fea, and carried in other boats to that capital ; as thofe that are brought down from it on the Nile are there fhipped off for Alexandria; on which account the Eu-

Roift:
Rulicruclans.
ropeans have here their vice-confuls and factors to tranfact their bufinefs; and the government maintains a beigh, a cuftomhoufe, and a garrifon, to keep all fafe and quiet.

I: the country to the north of Rufetto are delightful gardens, full of orange, lemon, and citron trees, and almolt all forts of fruits, with a variety of groves of palm-trees ; and when the fields are green with rice, it adds greatly to the beauty of the country. It is about 25 miles north-eaft of Alexandria, and 100 north-weit of Cairo. E. Long. 30. 45. N. Lat. 31. 30.

ROSICRUCIANS, a name affumed by a feet or cabal of hermetical philofophers; who arofe, as it has been fid, or at leatt became firit taken notice of, in Gernany, in the beginning of the fourteenth century. They bound themfelves together by a folemn fecret, which they all f ore inviolably to preferve; and obliged themfelves, at tueir admiffion into the order, to a ftrict obiervance of certain eftablifhed rules. They pretendef to know all fciences, and chiefly medicine; whereof they publihed themfelves the reftorers. They pretended to be mafters of abundance of important fecrets, and, among others, that of the philofopher's ftone; all which they affirmed to have received by tradition from the ancient Egyptians, Chaldeans, the Magi, and Gymnofophifts. They have been diltinguifhed by feveral names, accommodated to the feveral branches of their doctrine. Becaufe they pretend to protra\&t the period of human life, by means of certain noftrums, and even to reftore youth, they were called Immortales; as they pretended to know all things, they have been called Illuminati; and becaufe they have made no appearance for feveral years, unlefs the fect of Illuminated which lately ftarted up on the continent derives its origin from them, they have been called the invifible brothers. Their fociety is frequently figned by the letters F. R. C. which fome among them interpret fratres roris cocfic it being pretended, that the matter of the philofophers ftone is dew concocted, exalted, \&cc. Some, who are no friends to free-mafonry, make the prefent flourifhing fociety of free-mafons a branch of Roficrucians; or rather the Roficrucians themfelves, uider a new name or relation, viz. as retainers to building. And it is certain, there are fome free-mafons who have all the characters of Roficrucians; but how the xra and original of mafonry (fee Misonry y, and that of Roficrucianifm, here fixed from Naudseus, who has written exprefly on the fubject, confift, we leave others to judge.

Notwithfanding the pretended antiquity of the Rofi. crucians, it is probable that the alchemifts, Paracelfifts, or fire-philofophers, who fpread themfelves through almoft all Europe about the clofe of the fixteenth century, affumed about this period the obicure and ambiguous title of Roficrucian brethren, which commanded at firft fome degree of refpeet, as it feemed to be borrowed from the arms of Luther, which were a crofs placed upon a rofe. But the denomination evidently appears to be derived from the fcience of chemiftry. It is not compounded, fays Morheim, as many imagine, of the two words rofa and crux, which fignify rofe and crofs, but of the latter of thefe words, and the Latin ros, which fignifies dew. Of all natural bodics, dew was deemed the moft powerfu! difolvent of gold ; and the crofs, in the chemical language, is equivalent to light, becaufe the figure of a crofs + exhibits, at the

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fame time, the three letters of which the word $/ u x$, or Roficru. light, is compounded. Nuw lur is called, by this lict, the feed or menftruum of the red dragon, or, in other words, that grofs and corporeal light whicb, when properly digefted and moditied, produces gold. Hence it follows, if this etymology be admitted, that a Rolicrncian philofopher is one who, by the intervention and affiftance of the dew, feeks for light, or, in other words, the fubitance called the philofopber's itone. The true meaning and energy of this denomination did not elcape the penetration and fagacity of Gafiendi, as appears by his Examen Philofophice Fiuddana, fect. 15. tom. iii. p. 261 . And it was more fully explained by Renaudot, in his Conferences Publiques, tom. iv. p. $8 \%$.

At the head of thefe fanatics were Robert Fludd, an Englih phyfician, Jacob Behmen, and Michael Mayer; but if rumour may be credited, the prefent Illuminated have a head of higher rank. The common principles, which ferve as a kind of centre of union to the Roficrucian fociety, are the following: They all maintain, that the diffolution of bodies, by the power of fire, is the only way by which men can arrive at true wifdom, and come to difcern the firf principles of things. They all acknowledge a certain analogy and harmony between the powers of nature and the doctrines of religion ; and believe that the Deity governs the kingdom of grace by the fame laws with which he rules the kingdom of nature; and hence they are led to ufe chemical denominations to exprefs the truths of reiigion. They all hold, that there is a fort of divine energy, or foul, diffuled through the frame of the univerle, which fome call the archeus, others the univerfal fpirit, and which others mention under different appellations. They all talk in the mofi fuperititious manser of what they call the fignatures of things, of the power of the flars over all corporeal beings, and their particular influence upon the human sace, of the efficacy o? magic, and the various ranks and orders of demons.Thefe demons they divide into two orders, fylpks and gnomes; which fupplied the beautiful machinery of Pope's Rape of the Lock. In fine, the Roficrucians and all their fanatical defcendants agree in throwing out the moft crude incomprehenfible notions and ideas, in the moft obfcure, quaint, and unufual expreflions.-Mofh. Eccl. Hilt. vol. iv. p. 266, \&c. Englith edition, 8vo. See Behmen and Theosophists.

ROSIER. See Pilatre.
ROSIERS-Aux-Salines, a town of France, in the department of Meurthe, famous for its falt-works. The works that King Staniflaus made here are much admired. It is feated on the river Muerthe, in E. Long. 6.27. N. Lat. 48. 35.

ROSKILD, formerly the royal refidence and metropolis of Denmark, fands at a fmall diflance from the bay of Ifeford, not far from Copenliagen. In its flourifhing flate it was of great extent, and compriied within its walls 27 churches, and as many convents.Its prefent circumference is fcarcely half an Englifh mile, and it contains only about 1620 fouls. The houfes are of brick, and of a neat appearance. The only semains of its original magnificence are the ruins of a palace and of the cathedral, a hrick building with two fpires, in which the kings of Denmark are interred. Little of the original building now remains. According to Holberg, it was confructed of wood, and af

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Refkill, tertrards built with fone, in the reign of Canute.Rofin.

From an infoription in the cnoir, it afpeas to have been
founded ty Harold V L. who is ityled kilg of دjemmank, England, and Nurway. Some verles, in Darbarosis Jaatin, oufcurely allude to the principal incidents of his line; adding, that he bwilt this charch, and diud in 980. -S'ee Cuxe's Travels into Puland, Rufia, Sinedon, and Denmark, vol. ii. p. 525 .

ROSLEY-Hill, a village in Cumberland, with a fair on Whit-Monday, and every tortnight after till September 29. for hortes, horsed cattle, and linen cloth.

ROSLIN, or Roskflys, a place in the county of Mid Luthian in Scotland, remarkable for an ancient chapel and caitle. The chapel was founded in 1446, by St Clare, prince of Culuicy, for a provoft, fix prebendaries, and two finging boys. Ilie outlide is ornemented with a mulitude of pinnacles, and variety of hadicrous fculpture. The infide is 69 feet long, the breadth 34, fupported by two rows of cluttered pillars, betueen feven and eight feet high, with an aille a on eack fide. The arches are o' tufe y Gorthic. Thefe arches are contirucd acrols the fide ailies, but the centre of the cluurch is one continued arch, elegantly divided into compartments, and fincly Iculptured. The capitals of the pillars are emicled with foliage, and a variety of figures; and amidit a heavenly concert appears a cherubil: blowing the ancient Fightand baspipes. The caltle is feated on a pet infulated rock, in a deep glen far beneat $l_{2}$, and acculfiole ly a bridge of great height. This had been the feat of the great family of Sinctair. ()f this houfe was Oliver, favourite of James Y, and the innocent caufe of the lufs of the battle of Solway Mofs, ty reafon of the envy of the nobility on account of his Leing preforred to the command.

Viear this place the Englith reccived three defeats in one day under John de Segrave the Englith regent of Scotland in 1302 . The Scots, under their generals Cumbin and Frater, had refolved to luprife Segrave ; with which view they began their march on the night of Saturday preceding the firt Sunday of Lent, and rcached the Englifh army by break of day. Segrave, however, had time to have fallen back upon the other divifon which lay behind him; but either defpifing his nacmies too much, or thinking that he would be diftonourcd by a retreat, he encountcred the Scots; the confequence of which was, that he himfelf was made prifoner, and all his men either killed or taken, except fuch as fled to the other divifion. As in this routcd divifion there had beeu no fewer than 300 knights, each of whom brought at leafl five horfemen into the field, great part of the Scuts infantry quickly furnifhed themSelves with their horfes; but, as they were dividing the Ipoils, another divifion of the Englilh appesied, and the Scots were obliged to fight them alfo. The Englih, after a bloody engagement, were defeated a fecond time; which was no fooner done, than the third and moft powerful divifion made its appearance. The Scots were now quite exhauiled; and, pleading the exceflive latours they had already undergone, carnellly requefled their generals to allow them to retreat while it was yet in their power. Their two generals, who perhaps knew. that to be impracticable, reminded them of the caufe for which they were fughting, the tytamy of the Englifh, \&ec. and by thefe anguments prevailed upon them to fight a, thixd time; though, previous to the engage-
ment, they were reduced to the cruel neceffity of putting all the common foldiers whom they hid made prifones to the liword. The victory of the Scots at this tianc was leis cumplete than the other two bad becn; fince they could not prevent the retreat of the Englith to Edinburgh, nor siy rave from being ecleued from ais captivity.

RUSMLARINUS, kCSmary, a genus of plants belonging to the diandria clafs, and in the natural methed rarking under the 42 d order, Vericillaue. Sce Borany Index.

RUSS, in Herefordhire, in England, 119 milcs from London, is a fine old lown, with a geod trads, oll the river Wiye. It was reade a free borough by Heny 11I. It is a populous place, famous tor cyder, and was noted in Camden's time for a manufacture of iron-wares. Tliere are in it two charisy ichools, which lately lave been enriched by a legacy of 2001 . per annum from Mr Scott, in Doc. 1786, a fecond Man of Rofs. And its market and fairs are well ftored with cattle and other provificns. At the weft and of it there is a fine broad cauleway, confiructed by Mr John Kyrle, the celebrated $\Lambda 1 a n$ of $\mathrm{Ro} / \mathrm{r}$, who allo raited the fpire upward of 100 teet, and incloled a piece of gound witha ttone wall, and tunk a refervoir in its contre, for the ufe of the inhabitants of the town. He died in 1714, aged 90, with the blefing of all whoknew hirm, both ricli and poor. 'I he banks of the Wrye, betwee: this town and Monmouth, are extremely pleatant. W. Long, 2. 25. N: Lat. 51. 56.

RUSSANO, a tirong town of Italy, in the kingden of Naples, and in the Hither Calabria, with an archioiflop's lee, and the title of a principality. It is fetly large, well peopled, and feated on an eminence furouraed with rocks. There is nothing in this arclie pificop-I city that claims muck notice; the buildings are mean, the flieets vilely javed and contrived. The number of inhabitents does not exceed 6000 ; who fubfint by the lale of their oil, the princjpal object of their atteation, though the territory produces argreat cical of gocd wis $c$ and com.

Roflano probably owes its origin to the Roman emperors, who confidered it as a poit equaliy valuable tor ftrength and convenience of treflic. ithe Marfans, a family of French extraction, pofitifed this tersitory, with the title of prince, from the time of Charles 11. to that of Alphonius II. when the laft male heir was, by that prince's order, put to death in Ifchia, where he was confined for treafon. It afterwards belonged to Bona, queen of Poland, in right of her mother labella, daughter to Alphonfus II: and at her deccate returned to the crown. It was next in the poffelion of the A.1dobrandini, from whom the Borghefi inlerited it. So late as the 26th century, the inhatitants of this cily fpoke the Greek language, and followed the rites of the eaftern church. He:e was formerly the muit celebrated. rendezvons of the Batilian monks in. Magna. Graecian E. Long. 16. 52. N. Lat. 39-45-

ROS.solis, Sun-duw, an agreeable fpirituous liquor, compofed of barnt brandy, fugar, cinnamon, and mill.- * water; and fometimes perfumed with a livile m. ik. It has its name from being at firt prepared wholly of the juice of the plant ros foile, on droteran Sie DNOSERA, Eotany Index.

ROSS-SHIRE is the moft cxtendive cotruty-in Scotland,

Ruli-dh re.

## R O S

Rut . land, meatiuing about So miles in length br aimof as nnuch in breadith, and contains $1,776,000$ Iquare acres. $h$ is even nove exter ihe than any county of England, ii wc except Yorkhhire ; and conkskis in it the illand of Levis, which is one of the Hebrides, or Weffern Llics. The county of Sutherland is the nothern boundary of Rof; ; on the calt it is bounded by the county of Cromarty and the ocean; on the fouth by the lhire of Inverneff; and on the we.t by the ocean.

R ts hise is very fertie in corn, and its eanern coan, which is ornamented wilh difierent country fiats inhabited by the proprictors, has always been regarded as contitiuting a part of the Lowlands of Scotland; but the wellenn patis rife into mountains, and properly form part of the Higitlands, where the veniacular tongue is the Eiffe or Gaelic.

Among the different waters which are met with in this county, we may mention the friths of Dornochand Cromarty, the latter of which fretcies far into the land from the Moray frith. The river Ockel, which has its fource in the parin of Alfiat in Sutherlandhaire, is one of the chief fltreams of Rofs; and after a courfe of more than 40 miles , die harges iferif into the head of the frith of Dotroclh. The river Conan bends its courfe towards the eaft coaft, and cmpties itelff into the molt inlaiad part of the frith of Cromarty. It contains abundance of falmon, and pearls at one period were found not far srom its mouth. The frith of Beauly conititues the boundary of Rofs with Inverne--fhire; and this, togetlier with thofe of Dornoch and Ciomary, are of confiderable importance, as thicy afford accef's to a great part of it by means of water carriage. Between the fiviths of Muray and Cromarty, the coaft is bold and rocky, abounding with dreadful orecipices and lighty romantic views. Along the Chore there are numerous caves hotlowed out by the band of nature, fome of them extremely deep, and one in particuias runs entirely throush the rock, a dilance of about 150 feet. There are alfo natural caves on the north fide of the frith of Cromarty, fome of whicl, it is frid, are of fuch vant dimentions as to be a'le to contain about $6=0$ men. From their upper parts there aie drops of water continually ditilling. and by the petrifation thus gradually accomplifhed, their a-perance above refembles the fineft marble. In thefe a variety of birds take up their refidence, and pigeons brin, forth their young.
The weflem coalt is dieeply indented with arms of the fea called bays, or otherwife lochs; among which are grent and liftle Loch Broom, to the fouthusard of which there is a frefh water lake of comiderable extent, known by the name of Loclh Mari, in the parih ol Gairloch. It is about 16 miles long, but its breadth varics confiderably. It contains 24 fimall fiants, which are decorated with fir and other trees. We find the rvins of a druidical edifice on the large ifland c -l'cd hari, round which there is a burying ground mare ufe of by the inhabitants on the north fide of Loch Mari as a place of interment.
The codffining has teen Inng efathlified at Gairboch, in the fame vicinity; nearly 40,000 curd being annually fent to market by a fingle preprie rr. It has alfo been long celebrated, as we") ac Loch "izoom, for the berring fifhery. In the parilh of Lexa Alth there are extenfive banks of corals, which have been farmd, upon tiial, to te valuable manure.

In the level fuzts of tice country betwet, the minu: Rus there tains there are numerous lakes adorned with eliohtrul frenery, and fome of thom mealuring not lefs than three niles in length. Tllis county is almolt wholiy mountainous, yet even here ve fini fome which are nore memorable than others, an ! w ry much calcu ded to arrett the attention. Tulloch Ard is a mountsin of great beight, and becones remarky' le on account of the ufe which was made of it in ancient times. At the commencement of holtilities with any eneniy, a barrel of burning tar might be feen flaming from is funmit, which was the eftablithed trgnal, in confequence of which the tenants and vaßiils of Seaforth appeand at the cafle of St Donan in twenty four hours, completely equipped for marching againft the foc. The arms of that honourable family have this mountain for a crell. Ben-Uaifh, in the parilh of Kilteam, reass its Femmit above the relt of the mountains, and may be feen acrofs the Moray frith, frow the counties of Elgin an:d Banff. It is contantly covered with fnow, from which the family of Foulis muft give, if den:arded, to his Britonnic majecty on any day of the year, a frowball as quitrent for its tenure of the forelt of Uath. There is plenty of heath and grafs around its baf, whichaffurds excellent pature for cattie.

The county of Rofs cent ins 82 proprietors nf land. 7, of whom are of the filt chat, 3 of the fee nd, 12 of
 the valued rent of all $t$ mounting to 75.24 cl . Ios.
 while the real rent is computed at not leis than $38, \cdots: 11$. fterling.

The grains ufually cultivated in the fhire of Rofs are barley, oats, peafe and be.ns, prtatnes, and whest on particular occafions. A great part of the county, however, is converted in'o gralk, owing to the nant of marke's for the coniumption of ot erer productions; and thole who adopt this plan sind it more for their intereft than that which is ufually followed in $m$ re f:turate fituations. The fiil in Reneral is good; fome of it bears lexuriant crops, and the vaft improvements in modern agriculture, if carefully attended to, would make the mult unfavourat le ip-s become worthy of cultivation. Lime, marl, and helly fand, conttitute the minure which is uied by gentienen and extenfive farmers, while finaller tenants fiubfitute a compolt of earth end dung, in the proportion of three loads of the former to one of the later. The country in general lies open, but the farms of getitemen and fome of the we. Thhics tenants are inclofed; and fich as are fo are reckoned one half more valuable than thofe which are open.

Would proprietors in this coun'y grant thacir tenants lenfes for 19 at leaft, inflead of 5 or 7 years, they would hold ont a flimulus to mdufry and improvement which cannot proffioly he felt as circumilfances now fland. What encouragement has a man to befow money and labour on the property of another, of which lie knows he muft be deprived in the courle of fiven years. The man whe holds a farm durirg fuch a trifline neriod, muft tear all out of it he can at the lenit poftible expence, and leave it to the proprietor, when he denats, little hetter than a common.
The premrietors of the rounty of Rofs have of late bccome very attentive to different Iperies of improse-

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Rof--fire. ments ; and in the lower parts of it we mest with excellent roads, as well as bridges built over every rivulet of any extent whatever, which facilitate travelling, and render it agreable. The moors which once exhibited nothing bul ferifity, are now covered with firs; while pines, with different fpecies of timber, furround their boules. The fis, elm, oak, and beech, are found to thrive in this county, as well as various kinds of fruit trees, not even excepting apricots, peaches, and plums. In the central diftrict of Rofs ftill remains the extenfive foreft of Fainilh, about 20 miles in length. The weftern diftrict is very extenfive; but its general afpect is by no means inviting. From the top of a mountain a ftranger fees nothing around him but a defolate and dreary region, valt piles of rocky mountains with forked fummits; yet interfperfed among thefe are many beautiful and fertile vales, exhibiting, however, a great variety of foil, owing to the peculiarity of their fituation.

The climate may be faid to be as unequal as the face of the country iffelf, fince no two days in fucceffion can at all be depended on at any given period of the year. Indeed the Seafons may not improperly be regarded as always wet, and the lower claffes of the inhabitants efpecially confider almont every thing as an indication of min. If milt fetile on the tops of the hills; if the clouds be heavy'; if a crow chatter, or if the day be hot or cold, rain, im the judgement of a Highlander, may be affuredly expected to follow. From thus having that fome have denominated a weeping climate, it is enfy'to fee that it mult be much better adapted for paffurage than agriculture; yet invincible patience, perfeverance, and a competent knowledge of hufbandry have, in many parts of it, furmounted the obflacles that fuch a climate muft ever throw in the way of improvcmient.

- The minetal productions are not very abundant, but fome of them are of confiderable importance in the arts and manufactures. Here there is plenty of freeftone, and different, fiecies of limeftone, fome of which are of the nature of marble. Mayl is alfo to be met with, and ironfone in great abundance. A copper mine in the northern diftrict of the parifh of Applecrofs, has been confidered by Williams, in his Mineral Kingdom, as equaliy rich with any mine of the fame metal to be met with in the Bitith empire. There is a rich ore of iron in the parifi of Alnefs; and in the fame vicinity there is a vein of lead, containing a large proportion of filver. Indications of lead ote have likewife been met with in the parim of Kiltearn. There is a chalybeate Spring near the florehoufe of Foulis, the good effects of which were experienced many years ago; but of the medical propexties of the fring at Tienleod, known by the name of St Colman's Well, we have no certain accounts, although the votaries of fupertition have frequentiy drunk of its waters, and then fufpended fome rags from the branches of the furrounding trees, as an oblation to the faint.

This county contains three royal beroughs, viz. Tain, Dingwall, and Portrefe, a defcription of which will be found in this work, in the order of the alphabet, as well as of Lewis, one of the Hebrides; and its chicf town Stornoway, which have fometimes been taken notice of in a general defcription of Rofs-Rife, although wholly detarhed from it.

In this county there are many remains of antiquity, Rog-aire. the moft memorable of which we fhall here enumerate. There is a Druidical circle or temple on the eattern part of the county, and parifh of Kiltearn, confiling of twelve large ftones placed perpendicularly, and to arranged as to form two ovals, which are united together, and having equal areas, mcafuring 13 feet each from eaft to weft, and ten feet in the middle from north to fouth.

There is a large obelifk in the parifh of Nigg, with figures of different animals on one fide of it, and a crofs on the other, executed with confiderable tafte. The former is conjectured to be of greater antiquity than the latter. According to tradition, it was erected to perpetuate a fhipwreck fuffered by the Danes, at which time three fons of the king of Denmark are fuppofed to have perifhed, and to have been interred in the place on which the obelifk ftands. In the churchyard of Nigg there once ftood another of a fimilas nature, likewife fuppofed to have been erected by the Danes, which in confequence of a violent wind was thrown down about the year 1725 . The fculpture is fill in a flate of tolerable prefervation, and refembles that which is found on the other monuments left by that people in different parts of Scotland.

Craigchenichan in the parifh of Kincardine, is memorable for being the place where the celebrated marquis of Montrofe fought his laft battle, when he was defeated by Colonel Strachan. Having fwimmed acrofs the Kyle, he lay for fome time concealed in Affint; but on being difcovered, he was apprehended, and fent prifoner to Invernefs. The ground on which the battle was fought derived its name from the iffue of that interefting day ; for the fignification of Craigchenichan is, the Rock of Lamentation. There is ftill feen in the parifh of Avoch, the foundation of a large cafle of great antiquity, on the fummit of a hill in the neighbourhood of Cafletown Point, elevated about 200 leet above the level of the fea. Some peop.e call this Ormondy hill; and tradition has given the name of Douglas caftle to the ruins. It covers a fipace of ground in the form of a parallelogram; the longeft fides of which meafure 350 , and the fierteft 160 feet, fo that the whole area contains upwards of 6,300 fquare yards.

According to tradition, there are many places in the eaftern diffrict of this county where bloody battles were fought, either with the invading Danes and Norwegians, with daring plunderers, or between rival clans, who bitterly contended for fuperiority. Large collections of ftones, called cairns, direct the traveller to the frots where the remains of the dead were depofited, uho had fallen in the field of battlc. There are manifet indications of an encampment on a large plain to the weftward of the church of Eddertown, where : a battle is faid to have been fought with the invading Danes. In its vicinity there is an extenfive circle of earth, about two feet higher than the circumjacent ground, being flat at the top, with an obelifk in the centre about 10 feet in height, on which a number of rude fgutes may fill be traced. This is regarded as the tomb of fome Danifh prince.

The abbey and cafte of Locllin are the moof remarkable remains of antiquity in the parih of Fearn, the former of whick is faid to have been firt built of mud, but afterwards conftructed of more durable ma-
$\underbrace{\text { Rois-flire. }}$
terials. It meafured 09 feet in length within walls, was 25 feet fix melhes broad, and its walls were 24 feet in height. This abbey continued to be employed as a place of worfhip till the month of OCtober 1742 , at which time the ronf fell in during divine fervice, and 36 perfons are faid to have loit their lives by this melancholy accident. The caftle of Lochlin is fuppofed to be more than five centuries old. It is fituated on an eminence about fix miles to the eaftward of Tain, and feems evidently to have been ereeted as a place of fecurity againft the fudden incurfions of any invading enemy . Its form refembles that of a double fquare united at the angles, in which union there is a ftaircafe leading to the top of it, which is about 60 feet in height. The fquares are not of equal and fimilar dimenfions, the one towards the weft meafuring 20, and the other towards the eaft about $3^{8}$ feet every way, fortified with three turrets of fuch dimenfions, that any one of them can contain three or more men with eafe. The caftle of Cadboll, of which few remains can now be traced, is fuppofed to be more ancient than that of Lochlin, deriving all its intereft from a fingular tradition, viz. that no perfon ever died in it, though inhabited for ages ;a circumftance, however, which may be fatisfactorily accounted for without recurring to the marvellous. Many of the inhabitants becoming weary of life, requefted to be removed; and a lady May in particular, whofe refidence it was about 100 years before the prefent period, and whofe lingering difeafes made her long for death, begged that the might be carried out of it, which was at laft granted in confequence of her importunity; and we are told that after her removal the inflantly expired. The cave or fubterraneous dwelling in the diftrict of Applecrofs, is confidered by many, and with great probability, as the quondam magazine of plander, rather than the habitation of men; and perhaps the fame may be faid of every other place of a fimilar nature to be met with in this county. The caftle of Donan in the peninfula of Kintail, which is now in ruins, was probably built in the reign of Alexander III. of Scotland, with a view to oppofe the incurfions of the Danes. It was demolithed by a thip of war in the year 1719 , after the battle of Glenfheil, a mile above which fome of the bullets fired againf it are occafionally found, employed by the people as weights in felling butter and cheefe.

The chief clans in Rofs thire are the Mackenzies, Roffes, Frazers, Mackays, Macraes, and the Munroes, all of whom fpeak Gaelic, and wear the Highland drefs, - efteeming the earl of Seaforth as their head, being the - lineal defcendant of Mackenzie Lord Seaforth, who rras attainted for his concern in the rebellion. This - county contains 30 parochial diftrits, fends one memsber to the Britifh parliament, and by a cenfus taken in 1801, in confequence of the population act, it was found 20-contain $52,29 \mathrm{r}$ inhabitants, being. an increafe of $9,79^{8}$ fince the return to Dr Webfter in 1755. The following ta'le exhibits a tiew of the population of this county according to its parifies it two different periods.



ROSTOCK, a town of Germany, in the circle of Upper Saxony, and duchy of Mecklenburg, with an univerfity and a very good harbour. It is the beit town in this country; and has good fortifications, with an arfenal. The duke has a ftrong caftle, which may be looked upon as a citadel. It is divided into three parts, the OId, the New, and the Middle Towns. It was formerly one of the Hanfeatic towns, and is fill Inperial, under the protection of the duke of Mecklenburg. It is feated on a lake where the river Varne falls into it, and carries large boats. The government is in the hands of 24 aldermen, elected out of the nobility, univerfity, and principal merchants; four of whom are burgomafters, two chamberlains, two ftewards for the river, and two judges of civil and criminal matters. Thefe 24 are called the Upper Houfe, and have in a manner the whole executive power lodged in them, with the power of coining money, and electing officers. There is alfo a common council of roo inferior citizens, who are fummoned to give their advice upon extraordinary emergencies relating to the whole community. The principal things worth feeing are the fortifications, the prince's palace, the ftadihoufe, the arfenal, and the puklic library. The town is famous for good becr, which they export in great quantities. Sume years agn they had no lefs than 250 privileged brewers, who, it is faif, brewed fo many thoufand tuns a year, befides what particular perfons brew for their own ufe. E. Long. 12. 5s N. Lat. 54. 8.

BOSTOFF, or Rostow, a large town of the Ruflima empire, and canital of a tergitory of the fame narre, with

## $\mathrm{R} O \quad \mathrm{~T}$

an arcilibihop's fee, feated on the lake Coteri, in E. Long. 40.25. N. Lat. 57. 5. The dachy of Ro loff is bounded an the north by Jarofurv, on the ealt by Sutdal, on the fouth by the duchy of Mofcow, and on the weit by that of Tuere.

ROSTRA, in antiquity, a part of the Roman forum, wherein orations, pleadings, funeral harangues, \&c. wcre delivered.

ROSTRUM, literally denotes the bcak or bill of a bird; and hence it has been figuratively applied to the beak or head of a fhip.

## Rosycrucians. See Rosicructans.

ROT, a very fatal difeafe iscident to fheep, arifing from wet feafons, and too mecift palture. It is very difficult of cure, a:id is attended with the fingular circumflance of a kind of animals being found in the blood-reffels. See Sheer, difenfes of, under Farriery.

ROTA, the name of an ecclefiatical court of Rome, compofed of 12 prelates, of whom one muft be a German, another a Frenchman, and two Spaniards; the other eight are Italians, three of whom muft be Romans, and the othe: five a Bolognefe, a Ferraran, a Milanefe, a Venetian, and a Tufcan.-This is one of the moft auguft tribunals in Rome, which takes cognizance of all fuis in the territory of the church, by appeal; as alfo of all maiters, beneficiary and patrimonial.
rota Aristotelica, or Arjpotle's TWheel, denotes a celebrated problem in methnics, conceming the motion or rotation of a wheel sinout its nxis, fo cilled becaufe Arifotle was the firf who took notice of it.
The difficulty of it may be reprefented in the following manner. While a circle nakes one revolution on its centre, advancing at the fame time in a right line along a planc, it defcribes on that plane, a right line which is equal to its circumference. Now, if this circle carry with it another fmaller circle, concentric with it, like the nare of a cuach wheel; then this fmaller circle Ir nave, will defcribe a line in the time of the revolution, which fall be equal to that of the large wheel or circumferencc itfelf, becaufe its centre advances in a right I'ne as fef as that of the wheel does, being in reality the fithe with it.

Arifotle attempted to folve this problern, kut his folution can only be regiriel as a good account of the diff wlty.

It was vext atticmpted by Galleo, who had recourfe to an infai:c number of infmitely fmall vacuities in the sight line defcribed by the two circles, and imagined that the littie circle never applies its circunference to thafe vacuilics ; hut in reality only ayplies it to a line equal to its own cireumference, though it appears to have applicd it to a much larger. This, however, is nothing to the purpe.f.

According to Tacquet, the little circle making its rotation more flowly than the great ore, does, on that account, defribe a line longer than its own circum? erence; yet without applying any point of its circumference to more than one point of its bafe. This is no more fatisfactory than the former.

After the fruillefs endeavours of many great men, Mr. Dortous de Meyran, a French gentieman, had the good fortase to hit upon a folution which, afier being fully examined by a committec of ibe Academy of Sciencer,

## 4 1 $\mathrm{K} O$ T

was declared to be fatisfactory. Tice feltowing is his fulution.

The wheel of a coach is only aned on, or drakia in Roat on. a right lize; its rotation or circular motion crises purely from the refillance of the grour:d. Now this reliztance is equal to the force which draws the wheel in a right line, as it defeats that direction, and thiercfore the caufes of the two motions are equal. The whecl thersfore defcribes a right line on the ground equal to its circumference.

On the contrary, the nave is drawn in a right line by the fame force as the wheel, but it only turns round becaufe the wheel does fo, and can only turn in the fame time with it. Hence, its circular velocity is lefs than that of the wheel, in the ratio of the two circumferences, and therefore its circular motion is lefs than the rectilinear one. Since it muft defcribe a right line equal to that of the wheel, it can only do it by partly fliding and partly revolving, the fliding part being more or lefs as the nave itfelf is fmaller or greater.

ROTACEA (from rota, "a wheel"), the name of the 20th order in Linnæus's Frayments of a Natural Method; confifing of plants with une flat, wheel-hhaped petal, without a tube. See Botany.

ROTALA, a genus of plants beionging to the triandria clafs. See Botany Inder.

Rotang. Ser Calamus.
ROTATION, is a term which expreffes the motion Defiution of the different parts of a folid body round an axis, and and inditinct from the progrefive motion which it may have nature of in its revolution round a diftant point. The earth has a the turijeck. rotation round its axis, which produces the viciflitudes of day and night; while its revolution round the fua, combined with the obliquity of the equator, produces the varieties of fummer and wither.

The mechanifm of this kind of motion, or the relation which fubfirts between the intenfity of the moving forces, modified as it may be by the mamer of application, and the velocity of rotation, is highly interefing, both to the fecculative philofopher and to the practical engineer. The preceffion of the equinoxes, and many other aftronomical problems of great importance and dificulty, receive their folutions from this quarter : and the actual Arformance of our molt valualle machines cannot be afcertained by the mere principle of equilibrium, but require a previous accuaintance with certain general propofitions of rotatory motion.

It is chietly with the $v^{\prime} \mathrm{e}$ iv of affiting the engineer that we propofe to deliver in this place a few fundamental propofitions; and we hall do it in as familiar and popuiar a manner as poffible, alt"on: "Is may cauie the application of them to the abit witarms of atimomy to be greatly doficiert in the ele ${ }_{5}$. ce of which they are fulceptible.

When a folid wody turn round an axi; retainitig its state of ${ }^{2}$ flupe and dimenfions, every particle is : maliv de.eri the parcibing a circle round this axis, and the axis pafleat through ${ }^{\text {chs }}$, in mothe centre of the circle, and is peppendicular to its an ams plane. Moneover, in any infant of the motion, the prarticle is noving at richt angles with the . ons ventor, or line joining it with is centre of motatin. Wherefore, in order to afcertain the direction of the motion of any Plate particle P (fif. 1.), we may draw a flrai he live PC ceccuxvi. from the particle perpendicular to the axis AI3 of 10 . Fig. 1.

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Fentation tation. This line will lie in the plane of the circle $P$ $m n$ if ret. . e [article, a:ld will be its radius vector; pis draws from tie parsicle perpordicuat 1 in abs tedot will be a tangent to the crcie of rotat .... and will have thee dacetion of the motion of $t h i=p i=$ le.

The wLsl boty b ing f piofed to turn together, it is evident. if at $n$ iesi xt ... nimule a complele rotation, each parthe his dofiried a ciscumference of a circle, and 2$\}$. ...ue net hs of the diffirent particles will be in the rasion thefecircunferences, and therefore of their raüii ; and this is true of any portion of a whole tum, fuch as $i$. $\frac{1}{4}$, or 20 degiees, or any arch wh tever; therefore the velocities of the different particles are proportional to their medi vectores, or to their diftances from the axis of r -wtion.

And, latily, all thefe motions are in parallel planes, to which the asis of rotation is pertath cular.

When we cons,ate the rotaicer of different bodies in refpes of vel city, it is fin that it ernnot be done by directly conraaring the velocity of cry 1 article in one of the bodies with that of any particle of the or $3 . c r$; for, as all the particles of each have different velocities, this comparifon can eitabilh no satio. But ue familiarly compa:e fuch metions by the number of complete turnis which they make in equal times, and we fay that the fecond hand of a clock tuens 60 times falter than the minute hand; now this comparifon is equally juft in any part of a turn as in the whole. While the minate hand moves round on= degree, the fecond-land moves 60 ; thereiore, as the length or namber of feet in the line uniformly defcribed by a boojy in its progreffive motion is a proper meafure of its progreflive velocity, fo the number of de rees defribed by any particle of a whirling body in t..c circumference of its circle of rotation, or the angle deicrined by any radius vector of that body, is a-proper meafure of i,s velocity of rotation. And in this manner may the rotation of tiro bodies be compared; and the velocity is with propricty lormed ANEOLAR velocily.

An angle is directly as the length of the circumference on which it ftands, and inverlely as the radius of the circle, and may be expreffed by the fraction of which the numerator is the arch, and the denominator the radius. Thus the angle PC $p$ may be exprefed by $\mathrm{P} P$
$\overline{\mathrm{P}} \mathrm{C}$
. $\overline{\mathrm{P} C}$.

This fraction expreffes the portion of tie radius which is equal to the arch which meafores the angle; and it is converted into the ufual denomination of degrees, by knowing that one degree, or the 360 th part of the circumfience, is $\frac{1}{57.296}$ of the radius, or that an arch of $57.2,6$ degrees is equal to the radius.
Efe ${ }^{7}$ s, \&cc. Wben a foild body receives an intpulfe on any one aflue feve-point, or when that point is apyowurged by a moring r.: particle force, it cannot mo:e without the other points alfo moonmental viig. And shlatever is the motion of any isaticle, that on each borly particle mult be col ceived as urged by a force precifely cther.
competcnt to the production of that motion, by afting immedintely on the particle itfelf. If this is not the particie immediately asted on by the external force, the force which really impels it is a force arifing from the cohefion of the bodt. The particle immediately impelled by the external force is prefied towards its neigh-
boaring particles, or is drawn away from them; and, Rotitisa. by this change of piuce, thee coneching forces are br wight inio s.aion, or are excited; they act un tic particies adipining, and clurge, or tud to clahoe, their datances trom the particles immectiate?y beyond them ; and thus the fr-es whicin coneft this nent itries of particles are ailo escited, and another feries of particles are made to exert thein forces; and his goes on through the bedy till we come to the romote futticle, whote motion we are co fideting. the forses which connect it with the a ljoining feries of paricles are excited, and the particie is moved. We frequertly fay that the external moving force is propagated through the hocey to the diftant paricle ; but this is not accurate. The particle is really and immediately moved ly, the forces which conneet it will thofe arljoinitg. It will reatly affit our concoption of the manner in which motion is thes produced in a dirtant particle, if we confider the particles as fo mamy little balls, connected with each o her by flender fpiral foings lilie cork forcus. 'Tuis would compofe a mafs which wcu'd be compref fibie, or which could beflretched, \&xc. And if se give an irapulle to one of thefe balle, we flall tit the whole alfemblage in motion round any axis mhi h we may finpofe to luprort it. Now any one of thefe balls is reatly and immediately moved by the elafticity of the lpiral wires which join it to its neighbours.

We are but little acquainted with the nature of t"cfe connecting forces. It can be learned only by the phenomena which are their effects. Thefe are various, al- thy which mof beyond defcription; but the mechanical philofo-cles of bopher has little to do with this variety. The diftinetions dies aet on which are the immediate caufes of fluidity, of hardvefs, each other foftnefs, elafticity, ductility, are not' of very difficult and the conception. There is one general fact which is fuffi-confequen. cient for our prefent purpofe-the forccs by which the cts. particles of bodies act on eac! other are equal. This is a matter of unexcepied experience; anid no other foundation can be given to it as a law of mechanical nature.

An immediate confequence of this law is, that when two extennal forces $A$ and $B$ are in equilibriums by the intervention of a folid body (or rath r when a folid torly is in equilibrium between two external forces), thele forces are equal and oppofite; for the force A is in fact in imme i.te equilibrium "ith the oppofite forces exerted by the particle to which it is applied, and is therefore equal and oppofite to the force refulting froms the combination of all the foros which conned that particle with the feries of particles immediately adjoining. This refulting force may with propricty be called the equivalont of the forces froni the conibination of which it refults. The ufe of this term will greatly abbrevinte language. This firt fit of comecting forces confifts of a number of diftinct forces correfponding to eich particle of the feries, and cach force has an equal and oppofite force correlponding to it: therefore the compound force by which tlie firft ferier of particles aits on that to which the exicrual farce $A$ is applied, is equal and oppofite to the cumpound furce which connects this firft feries with the next ferics. And the farae thing mull be faid of cach fucceeding fories of particles, till we ceme at laft to the particte to which the extermal force $B$ is immediately applied. The torec exerted by this I aicle is equal and oprofite to that ex-

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R"ctation ternal forec ; and it is equal to the compound force exerted ty the fecond feries of particles on that fide; therefore the forces $A$ and $B$ are equal and oppofile.

It refults from this propofition, that when any number of external forces are applied to a foild body, and it is in equitibrio between them, they are fich as would be in equilibrio if they were all applied to one point. Let the forces $a \mathrm{~A}, b \mathrm{~B}, c \mathrm{C}$ (fig. 2.), be applied to three particles of the folid body. Therefore a A is immediately in equilibrinm with an equal and oppofite force $A \approx$, refulting from the compofition of the force AD , which connects the particles $A$ and $B$, and the force AE whicb connets A with C . In like manner $b \mathrm{~B}$ is immediately in equilibrio with $\mathrm{B} \beta$, the equivalent of the forces BF and BG ; and $c \mathrm{C}$ is in immediate equilibrio with the equivalent $\mathrm{C} x$ of the forces CH and CI . We thall conceive it very clearly if we fuppofe the three forces $\mathrm{A} a, \mathrm{~B} b, \mathrm{C} c$, to be exerted by means of threads pulling at the folid body. The connecting parts between A and B , as alfo between A and C , are ftretchcd. The lines AB and AC may be confidered as elaftic threads. Each thread is equally flretched through its whole length; and therefore if we take AD to reprefent the force with which the particle $A$ is beld back by the particle $B$, and if we would alfo reprefent. the force with which B is held back by A , we muft make BF equal to $A D$. Now ( $N^{0} 9$.), the forces $A D$ and BF are equal and oppofite; fo are the forces AE and CI; fo are the forces CH and BG. Now it is evident, that if the fix forces $\mathrm{AD}, \mathrm{BF}, \mathrm{BG}, \mathrm{CH}, \mathrm{CI}$, AE, were applied to one particle, the particle would be in equilibrio; for each force is accompanied by an equal and oppofite force : and if the force $A$ \& were applied in place of $\mathrm{AD}, \mathrm{AE}$, the equilibrium would remain, becaufe $A \propto$ is equivalent to $A D$ and $A E$. The fame is true of $B \beta$ and $C x$. Therefore if the three forces $\mathrm{A} \alpha, \mathrm{B} \beta, \mathrm{C}_{\kappa}$, wcre applied to one point, they would be in equilibrio. Confequently if the three forces $a \mathrm{~A}, b \mathrm{~B}, c \mathrm{C}$, which are refpectively equal and oppofite to $\mathrm{A} \alpha, \mathrm{B} \beta, \mathrm{C} x$, are fo applied, they will be in equilibrio. It is plain that this demonftration may be extended to any number of forces.

We may juft remark by the bye, that if three forces ate thus in equilibrio, they are acting in one plane; and, if they are not parallel, they are really directed to one point : for any one of them muft be equal and oppofite to the equivalent of the other two; and this equivalent is the diagonal of a parallelogram, of which the other two are the fides, and the diagonal and fides of any parallelogram are in one plane; and fince they are in one plane, and any one of them is in equilibrio with the equivalent of the other two, it muft pals through the fame point with that equivalent, that is, through the point of concourfe of the other two.

Thefe very fimple propofitions are the foundation of the whole theory of ftatics, and render it a very fimple branch of mechanical fcience. It has been made abftrufe by our very attempts to fimplify it. Many ela-
borate treatifes hat:c been written on the fundamerital property of the lever, and in them all it has been thought nest to an infuperable difficulty to demonftrate the equilibrium of a ftraight lever when the parallel forces are inverfely as their diffances from the fulcrum.

We think the demonftrations of Archimedes, Fonfenex, D'Alembert, and Hamilton, extremely ingenious; but they only bring the mind into fuch a ftate of conception that it cannot refufe the truth of the propofition; and, except Mr Hamilton's, they labour under the difadvantage of being applicable only to commenfurable diftances and forces. Mr Vince's, in the Phi-tion. lofophical Tranfactions for 1794 , is the moft ingenions of them all; and it is wonderful that it has notoccurred long ago. The difficulty in them all has arifen from the attempt to fimplify the matter by confidering a lever as an inflexible ftraight line. Had it been taken out of this abitract form, and confidered as what it really is, a natural body, of fome fize, having its particles connected by equal and oppofite furces, all dificulty would have vanilled.

That we may apply thefe propofitions to explain the Mode of motion of rotation, we muft recollect an unqueftionable conceiving propofition in dynamics, that the force which produces the magniany motion is cqual and oppofite to the force which would prevent it, when applied in the fame place and in forving the fame line, or which would extinguifh it in the fame time in which we fuppofe it to be produced. Therefore the force which is excited and made to act on any particle of a body, by the action of an external force on another particle, fo as to caufe it to more round an axis, is equal and oppofite to the force which, when applied to that particle in the oppofite direction, would be in equilibrio with the external force.

The only diftinet notion we can form of the magnitude of any moving force is the quantity of motion which it can produce by acting uniformly during fome given time. This will be had by knowing the velocity which it will produce in a body of known bulk. Thus we know that the weight of ten pounds of matter acting on it for a fecond will caufe it to fall 16 feet with an uniformly accelerated motion, and will leave it in a ftate fuch that it would move on for ever at the rate of 32 feet in a fecond; which we call communicating the velocity of $3^{2}$ feet per fecond. In the fame manner, the beft way of acquiring a diftind conception of the rotatory effort of a moving force, is to determine the quantity of rotatory motion which it can produce by acting uniformly during fome known time.

Let a folid body turn round an axis paffing through and of the the point C (fig. 3.) perpendicular to the plane of thisquantity figure. Let this rotation be fuppofed to be produced and effort by an external force acting in the direction FP. Let of rotatory this force be fuch, that if the body were free, that is, Fig. 3. unconneeted with any axis fupported by fixed points, it would, by acting uniformly during a fmall moment of time, canfe its centre of gravity $G$ (A) to defcribe a line of a certain length parallel to FP. This we know
(A) We take this term in its ufual fenfe, as expreffing that point where the fum of the equal gravitations of each particle may be fuppofed united. It is by no means (though commonly fuppofed) the poirt where the equivalent of the real gravitations of the particles may be fuppofed to act, and to produce the fame motion as when

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Rotatios. Who the efiect of a moving force acting on any folid body in free fpace. The centre of gravity will always deicribe a fraight line. Other particles may chance to move dififerenty, if the budy, befides its progreffive motion, has alfo a motion of rotation, as is generally the cafe. Draw GI parallel to FP, and make G1 to GC as the velocity which the external force would communicate to the centre of the body (if moving freely, unconnected with a fuported axis), to the vilocity which it communicates to it in the fame time round the axis C $c$. Alfo let $m$ be the number of equal particles, or the quantity of matier in the body. Then m. G1 wiil exprets the quantity of motion produced by this force, and is a proper meafure of it as a moving force ; for GI is twice the fpace defcribed during the given time with an uniformly accelerated motion.

But fince the body cannot move any way but round the axis paffing through C , the centre G will begin to move with the velocity, and in the direction, GH perpendicular to the line CG ( $\mathrm{N}^{\circ} 2$.) And any particle A can only move in the dircation AL, perpendicular to CA. Moreover, the velocities of the diferert particles are as their ractii vcetores; and CG is actually equal to the line GH, wisch e.:prefi.s the velocity of a particle in G . Therefure CA will in like man er exprefs the velocity of the particle A. If A exprufs its quanlity of mater, $A \cdot C A$ will exprefs its quastiy of motion, and will reorefent the force wish would procuse it by at.ng uniformly during the moment of time.

We expreifed the external moving force by m.G1. Part of it is employed in exciting the force A.C.A, which urges the particle $\Lambda$. In order to difcover what part of the external force is necelfars for this purpofe, draw $C P$ perpendicular to $F P$. The precedin! obfer*ations fhow us, that the force wanted at A is equal to the force which, when applied at $P$ in the direction FP, would balance the force A.C.A applied to $A$ in the direation L.A. Therefore (by the property of the lever $A C P$, which is impelled at right angles at $A$ and P) we mut have $C P$ to $C A$ as the force $A \cdot C .1$ to the balancing prefiure, which mult be exerted at $P$, or at any point in the line FP. This preflure is therefore $\frac{A \cdot C A \cdot C A}{C P}$ or $\frac{A \cdot C A^{3}}{C P}$. As we took m.GI for the mea-
fure of the whole external force, GI being the velocity which it would communicate to the whole body moving in free fpace, we may take $\mathrm{G} i$ for the velocity which would be communicated to the whole body by the preffure $\frac{A \cdot C A^{2}}{C P}$, and then this preffure will be

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properly expreffed by $m$. $\mathrm{G} i$. In like manner, $m, i k$ may exprefs the portion of the external force employed in communicating to another particle B the motion which it acquires; and fo on with refpect to all the particies of the body.

It muft be defirable to fee the manner in which the forces are really concerned in giving motion to the difte:ent particles.

Suppofe the external force to ą immediately on the external particle $F$. The line TiC connecting this particle with the axis in C is either Aretched or compreffed by the effort of giving motion to a remote particle A. It is plain that, in the circumfances reprefented in the firure, the line EC is contproficd, and the axis is pufhed by it againtt its lupports in the direction $\mathrm{C} \lambda$; and the body mult, on this account, refial in the oppofite direction Ff. The partic'e A is dragged out of its pofition, and made to begin its motion in the direction AL puperdicular to AC. This cannot be, unldfs by the con nesion of the t:oo litees $\triangle C, A \Gamma$. A refits by its inertia, and theref re both AC and AF are flretched by d.ag ging it into motion. By this refilance the line 10 terids to contract itrelf again, and it pulls $C$ in the direction $\mathrm{C} c$, and A in the direction $\mathrm{A} a$; and if we take $\mathrm{C} c$ to rep:efent the action on $C, A a$ muft be taken equal to it. In like mannce AF is fretched and tuds to conti:. $\rho$, puling $F$ in the direation $F \phi$ and $A$ in the direction $\mathrm{A}_{4}$ with equal forces. Thus the particle A is F. lled in the dircetions $A a$ and $A \propto$; the particle $F$ is pulied in the direction $\Gamma \varphi$, and pumed in the dircetion $\mathrm{F} f$; and C : pulled in the direction $\mathrm{C} c$, and pufliced in the direction $C x$. $A a$ and $A a$ have produced their er fivalent $A L,: y$ uhicls $A$ is dragged into motion: $F f=. d F \varphi$ produce tieit equivalent $\Gamma_{E}$, by which the extemal force is reffied, and $\mathrm{F}_{g}$ is cqual and oppufite to m.G $i$; the forces $C c$ and $C x$ produce their equivalent $C d$ by vi.ich tic axis is prefed on its fupports, and this is refrited by an equal and onpofite rea ation of the fuppots in the diresind $d C$. The forces therefore wi ich excie in the body the motion A.AL are both exterual, viz. the impelling force $g \mathrm{~F}$, and th. fupporting force $d$ C. AL therefore is not only the inmediate equivalent of $A n$ and $A \alpha$, but a.? ? the remote equivalent of $g \mathrm{~F}$ and $d \mathrm{C}$. We may therefore afcertain the proportion of $g$ F (hat is, of $m . G i$ ) to AL (that is, of A.AC), fide endent of the property of the lever. $g \mathrm{~F}$ is to AL in the ratio compounded of the ratios of $g \mathrm{~F}$ to F ? or $\mathrm{A} \alpha$, and of $\mathrm{A} \propto$ to AL. But we thall obtain it more eafily by confidering $g F$ as the equivalent of $A L$ and $d \mathrm{C}$. By what has been demonftrated above, the $P_{p}$
directions

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## $R \quad 0 \quad T$

Rotation. directions of the three forces $g \mathrm{~F}, \mathrm{AL}$, and $d \mathrm{C}$ muft meet in one point E , and $g \mathrm{~F}$ muft be equal to the diagonal $t \mathrm{E}$ of the parallelogram $\mathrm{E}_{e} t$, of which the fides $\mathrm{E} e, \mathrm{E}:$ are refpectively equal to AL and $d \mathrm{C}$. Now $t \mathrm{E}$ is to $\mathrm{E} e$ as the fine of the angle $t e \mathrm{E}$ to the fine of the angle $\mathrm{E} t e$, that is, as the fine of CEA to the fine of CEP, that is, as CA to CP, as we have alseady demonifrated by the property of the lever. We preferred that demonftration as the fhorteft, and as abundantly familiar, and as congenial with the general mechanifm of rotatory motions. And the intelligent reader will obferve, that this other demonitration is nothing but the demonftration by the lever expanded into its own clements. Having once made our readers fenfible of this internal procels of the excitement and operation of the forres which connect the particles, we fhall not again have recourfe to it.

It is evident that the fum of all the forces $g \mathrm{~F}$, or $m . \mathrm{G} i$, muft be equal to the whole moving force $m \mathrm{Gi}$. that $m . \mathrm{P}_{P}$ may be $=m$.GI. That is, we mult have $m . G I=\int \frac{A . C A^{2}}{C P}$; or; becaufe $C P$ is given when the pofition of the line FP is given, we mult have m.GI $=\int \frac{A^{C . C A}}{}{ }^{2}$, where both A and CA are variable quantities.
This equation gives us $m$. GI.CP $=\int$ A.CA ${ }^{2}$. Now we learn in mechanics that the energy of any force applied to a lever, or its power of producing a motion round the fulcrem, in oppofition to any refiftance whatever, is expreffed by the product of the force by the perpendicular drawn from the fulcrum on the line of its direction. Therefore we may call $m$.GI.CP the momentum (B), energy, or rotatory effort, of the force $m$.GI. And in like manner $\int$ A.CA ${ }^{2}$ is the fum of the momenta of all the particles of the body in actual rotation; and as this rotation required the momentum m.GI.CP to produce it, this momentum balances, and therefore may exprefs the energy of all the refintances made by the inertia of the particles to this motion of rotation. Or $\int A . C^{2}{ }^{2}$ may exprefs it. Or, take $p$ to reprefent the quantity of matter in any particle, and $r$ to reprefent its radius vector, or diftance from the axis of rotation, $f p, r^{2}$ will exyrefs the momentum of inertia, and the equilibrium between the momentum of the external force m.GI, acting in the direction FP, and the combined momenta of the inertia of all the particles of the whirling tody, is exprefied by the equation $m . G I . C P=\int A . C A^{2},=\int p r^{2}$. Thee ufual way of fludying elementary mechanics gives ns the habit of affociaing the word equilibrium with a flate of reft; and this has made our knowledge fo
imperfect. But there is the fame equilibrium of the Rotation actual immediate preflures when motion enfues from $\underbrace{\text { Rotan }}$ the action. When a weight A defcending raifes a fmaller weight $B$ by means of a thread paffing over a pulley, the thread is equally ftretched between the acting and refilting weights. The ftrain on this thread is undoubtedly the immediate moving force acting on B , and the immediate refifting force acting on A .
The fame equation gives us $\mathrm{GI}=\frac{\int_{p \cdot r^{2}}}{m \cdot \mathrm{CP}}$.
Now GI : CG $=\frac{\int p \cdot r^{2}}{m \cdot \mathrm{CP}}: \mathrm{CG},=\int p \cdot r^{2}: m \cdot \mathrm{CP} \cdot \mathrm{CG}$;
but CG reprefents the velocity of the centre. Hence we derive this fundamental propofition $\int p . r^{2}: m$.CP.CG $=\mathrm{GI}: \mathrm{CG}$; or, that $/ \int \cdot . \mathrm{r}^{2}$ is to $m . \mathrm{CP} . \mathrm{CG}$ as the velocity of the body moving freely to the velocity of the centre of gravity round the axis of rotation.

Therefore the velocity of the centre is $=\frac{m \cdot G I . C P . C G}{\int p \cdot r^{2}}$.
The velocity of any point $B$ is $=\frac{m \text {.GI.CP.CB }}{\sqrt{p \cdot r^{2}}}$.
This fraction reprefents the length of the arch defcribed by the point B in the fame time that the body unconnected with any fixed points would have defcribed GI.

Therefore the angular velocity (the arch divided by the radius) common to the whole body is $=\frac{m, G I . C P}{J P r^{3}}$. It may be here afked, how this fraction can exprefs' an angle? It evidently expreffes a number; for both the numerator and denominator are of the fame dimenfions, namely, furfaces. It therefore exprefies the portion of the radius which is equal to the arch meafuring the angle, fuch as $\frac{1}{2}, \frac{1}{3}, \frac{5}{2}, \& c$. And to have this angle in degrees, we have only to recollect that the radius is $57,295^{8}$.

This angular velocity will be a maximum when the axis of rotation paffes through the centre of gravity G. For draw from any particle A the line A $a^{\prime}$ perpendicular to CG, and join AG. Then $\mathrm{CA}^{3}=\mathrm{GA}^{2}+$ $\mathrm{CG}^{3} \pm 2 \mathrm{CG} \times \mathrm{G} a$. Therefore $\int \mathrm{CA}^{2}=\int \mathrm{GA}^{2}+$ $\int \mathrm{CG} \neq / 2 \mathrm{CG} \times \mathrm{G} a_{1}=\int \mathrm{GA}^{2}+m . \mathrm{CG}^{2} \pm$ $\int 2 \mathrm{CG} \times \mathrm{G} a$. But, by the nature of the centre of gravity, the fum of all the $+\mathrm{G} a$ is equal to that of all the - $\mathrm{G} a$; and therefore $\pm \int 2 \mathrm{GC} \times \mathrm{Ga}$ is nothing; and therefore $\int \mathrm{CA}^{2}=\int \mathrm{GA}^{2}+m . \mathrm{CG}^{2}$.

Therefore $\int \mathrm{CA}^{3}$ or $\int p r^{2}$ is fmalleft, and $\frac{m . \mathrm{GI} \cdot \mathrm{CP}}{\sqrt{p} r^{2}}$ is greateft when $m$. $\mathrm{CG}^{2}$ is nothing, or when CG is nothing; that is, when C and G coincide.

The abfolute quantity of motion in the whirling bo-
(B) The word momentum is very carelefly uf.d by our mechanical writers. It is frequently employed to exprefs the product of the quantity of matter and velocity, that is, the quantity of motion; and it is.allo ufed (with Arict propriety of linguage) to exprefs the power, energy, or efficacy of a force to produce motion in the circumflances in which it acts. We wifh to confine it to this ufe alone. Sir Ifaac Newton adhered rigidly to this employment of the term (indeed no man exceeds lim in precifion of expreffiot), even when he ufed it to exprefs the quantity of motion: for in thefe inflances the energy of this quantity of motion, as malified by the circunfiances of its action, was always in the ratio of the quantity of motion.
dy, or the furn of the motions of all its particles, is $\frac{m \cdot \mathrm{GI} \cdot \mathrm{CP} \cdot \int \beta, r}{\int P r^{3}}$. For the motion of each particle is $\frac{m \cdot G 1 \cdot C P \cdot p r}{\int p r^{2}}$
${ }^{25}$ t.e refiftance of a quantity of matter to a motion of rotation

The refiflance which a given quantity of matter makes to a motion of rotation is proportional to $\int p r^{2}$. For this muft be meafured by the forces which muit be fimilarly applied in order to give it the fame anguliar motion or angular velocity. Thus let one external force be $m$. G1, and the other $m \cdot y_{6}$. - Let both be applied at the diftance CP. Let $r$ be the radius veetor in the one body, and $p$ in the other ; now the angular velocities $\frac{{ }^{n} \cdot \mathrm{GI} . \mathrm{CP}}{\int p r^{3}}$ and $\frac{\text { m.gt. CP }}{\int p p^{2}}$ are equal by fuppofition. Therefore m. GI:m. $y_{6}=\int p r^{2}: \int \rho \rho^{2}$.

As in the communication of motion to bodies in free Ppace a given force always produces the fame quantity of motion ; fo in the communication of motion to bodies obliged to turn round axes, a given force, applied at a given diftance from the ases, always produces the fame quantity of momentum. Whence it may eafily be deduced (and we fall do it afterwards), that as in the communication of motion among free bodies the fame quantity of motion is preferved, fo in the communication of motion among whirling bodies the fame quantity of whirling motion is preferved.

This is a propofition of the utmoft importarice in practical mechanics, and may indeed be coifidered as the fundamental propofition with refpect to all machines of the rotatory kind when peeforming work ; that is, of all machines which dcrive their efficacy from levers or wheels. Therc is a valuable fet of experiments by Mr Smeaton in the Pbilofophical Tranfactions, Volume ixvi. which fully confirm it. We thall give an example by and bye of the utility of the propofition, flowing horv exceedingly imperfect the ufual theories of mechanics are which do not proceed on this principle.

With refpet to the general propofition from which all thefe deductions have been made, we muft obferve, that the demonifration is not rellricted to the time ne-c-Aflary for caufing each particle to defcribe an arch equal to the radius vector. We affumed the radius vector as the meafure of the velocity merely to fimplify the notation. Both the progreflive motion of the fice body and the rotation of the whirling body are uniformly accelerated, when we fuppofe the external force to act uniformly during any time whatever; and the fpaces defcribod by each moii $n$ in the fame time are in a conflant ratio. The formula may therefore with equal propriety reprefent the momentary accelerations in the different cafes.
It mnft alfo be obferved, that it is not neceffary to foppofe that all the particles of the body are in one plane, and that the moving force aets in a line IP iving al.o in this plane. This was tacitly allowed, merely to make the prefent inveftigation (which is addreffed chiefly to the practical mechanic) more fumiliar and eafy. The equilibriam between the force $\mathrm{A} \times \mathrm{CA}$, which is immeliately urging the particle A, and the Force $m$. G $i$ emploved at $P$ or $F$, in order to excite that force at A, woult haro keen precifely the farm: although the lines AC and FP bad been in different planes, pro-
vided only that thefe planes were parallel. This is Rotation known to every perfon in the leaft acquainted with the wheel and axle. But if the external moving force does not aft in a plane parallel to the circles of rotation of the different particles, it muft be refolved into two forces, one of which is perpendicular to thefe plance, or parallel to the axis of rotation, and the other lying in a plane of rotation. And it is this laft only that we confider as the moving firce; the other tends merely to pufh the body in the discetion of its axis, but has no tendency to turn it round that axis. When we come to confider the rotation of a body perfectly free, it will be n- ceflary to atter d particularly to this circumfance. But there are feveral important mechanical propofitions which do not requirc this.

The motion of any body is effimated by that of its The metion centre of gravity, as is well known. The difference of a moily between the motion of the centre of a free body and chimared the motion of the centre of a body turning round an hy that of axis, is evidently orving to the connexion which the 18 centre oi parts of the body have with this axis, and to the ac- gravity, tion of the poipts of fupport on this axis. This action muft be confidered as another external force, cormbined with that which acts on the particle $P$, and therefuee mult be fuch as, if combined with it, would produce the very motion which we obferve. That is, if we fuppofe the body unconneted with any fixed points, but as having its axis acted on by the fame forces which thefe points exert, the body would turn as we obferve it to do, the axis remaining at rett.

Therefore join I and H , and complete the parallelogram GIHK. It is plain that $m$.GK muft reprefent the forces exerted by the axis on the fixed points.

If therefore GI thou'd coincide with GH, and the point I with the point H, the force GK vanifhes, and the body begins to turn round C, without exerting any prefure on the points of fapport ; and the initial motion is the fame as if the body were free. Or, the axis 2t C is then a Pontancous akis of converfion.

That this may be the cafe, it is neceflary, in the firft place, that the externul force act in a direction perpendicular to CG; for GI is always parallel to FP: it being a leading propoficion in dynamics, that when a moving force acts on any part whatever of a folid body, unconneeted with fised points, the centre of gravity will proceed in a fraight line parallel to the direction of that force. In the next place GH murt be equal to GI ; that is, $\left(\mathrm{H}^{0} 21\right) \frac{\mathrm{m} \cdot \mathrm{GI} . \mathrm{CP} . \mathrm{CC}}{\int p r^{2}}$ is equal to GI , or $\frac{m \cdot \mathrm{CP} \cdot \mathrm{CG}}{\int P r^{-7}}=1$, and $\mathrm{CP}=\frac{\int p r^{3}}{m \cdot \mathrm{CG}}$.

The equation $\mathrm{CP}=\frac{\int p r^{2}}{m \cdot \mathrm{CG}}$ gives us $n \cdot \mathrm{CG} \cdot \mathrm{CP}$ $=\int p r^{2},=\int A \cdot C A A^{3}$. But it was C 小wn ( $\mathrm{n}^{0} 23$ ), that $\int \mathrm{A} \cdot \overline{\mathrm{CA}} \mathrm{A}^{2}=\int \mathrm{A} \cdot \mathrm{GA}^{2}+m \cdot \mathrm{CG}^{3}$. Thereiore $\int \mathrm{A} \cdot \mathrm{G} 1^{2}=m \cdot \mathrm{CG} \cdot \mathrm{CP}-m \cdot \mathrm{CG} \mathrm{CG},=m \cdot \mathrm{CG}$ $(\mathrm{CP}-\mathrm{CG}),=\pi$. CG. GP. Therefore we have (for another determination of the point of impulfe P fo as to ainnihilate all preflure on the axis) $\mathrm{GP}=$ $\frac{\int A, G A^{=}}{m, C G}$. This is gencrally the moft eafly obtainef, the 0 thematical fituation of the centre of gravity beig well knewn.
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sdrantage of annihila ting or diminifla:ng the preflure on the fupp.ris of the
tion.
the fupporled axis pafling throngh $C$; that is, let $S$ be Romien, : fuch a point, that if all the matter of the body vere collected there, a force applied at P.will produce the fame angular velocity as it would if applied at the fame point of the body having its natural form.

The whole matter being collected at S , the exprefion $\frac{m \cdot G I . C P}{\Gamma p \cdot r^{2}}$ of the angular velocity becomes $\frac{m \cdot G I \cdot C P}{m \cdot c b^{2}}$ ( $\mathrm{N}^{\circ} 22$.) ; and thefe are equal by fuppofition. Therefore $\int p r^{*}=n . C S^{2}$, and $C S=\sqrt{\frac{f p i^{2}}{n}}$.

This point S has been called the Centre of GyraTION.

In a line or flender rod, fuch as a working beam, or the fpoke of a wheel in a machine, CS is $\sqrt{\frac{7}{3}}$ of its length.

In a circle or cylinder, fuch as the folid drum of a capflane, $\mathrm{CS}=1^{\prime \frac{1}{2}}$ its radius, or nearly $\frac{7}{2}$. But if it turns round one of its diameters, $\mathrm{CS}=\frac{x}{2}$ radius.

In the periphery of a circle, or rim of a wheel, CS $=$ radius nearly.

If it turn round a diameter, $\mathrm{CS}=\sqrt{ } \frac{2}{3}$ radius. The furface of a fphere, or a thin fpherical fhell, tuming round a diameter, has $\mathrm{CS}=\sqrt{\frac{2}{3}}$ radius, or nearly $\frac{4}{3}$ or $\frac{5}{6}$.

A folid fphere turning round a diameter has CS $=\sqrt{\frac{2}{3}}$ radius, or nearly $\overrightarrow{\mathrm{T}} \mathrm{T}$. This is ufeful in the probiem of the preceffion of the equinoxes. We may oh. ferve by the way, that if we confider the whirling body as a fyitem of feveral bodies with rigid or inflexible connections, we may confider all the matter cf cach of thefe bodies as unite? in its centre of gyration, and the rotation of the whole will be the fame; for this does nct change the value of $\frac{\int p r^{3}}{m}$.

There is another way of making this correction of A fimpler the motion of a machine, or allowing for the inertia ofmode of a!. the machine itfelf, which is rather fimpler than the one lowing for now given. We can fuppofe a quantity of matter col- of ma irtul lected at the point to which the moving force is applied, chines. fuch that its ineria will oppofe the fame refiftance to rotation that the machine does in its natural form. Suppoie the moving force applied at $P$, as before, and that inftead of the natural form of the body a quantity of rater $=\frac{\int P r^{2}}{C P}$, collected at $P$; the moving force will produce the fame angular velocity as on the body, in its natural form. For the angular velocity in this care muft be $\frac{\frac{m \cdot \mathrm{GI} \cdot \mathrm{CP}}{\int r^{2}}}{\mathrm{CP}^{2}}, \mathrm{CP} ~\left(\mathrm{~N}^{\circ} 22.\right)$, which is $=\frac{m \cdot \mathrm{GI} \cdot \mathrm{CP}}{\sqrt{\rho} r^{2}}$, the fame as before.

A poin: O may be forend, at fuch a diflance from the Centre ${ }^{37}$ axis, that if all the matter of the body were collceted ufillations. there, and an external force $m$. Gl applied to it in a direction perpendicular or any how inclined to CO , it will produce the fame angular velocity as when applied to the centre of gravity $G$, with the fame inclination to the line CG.

In this cafe, the angular velocity muft be $\frac{m \cdot \mathrm{GI} \cdot \mathrm{CO}}{m \cdot \mathrm{CO}^{2} \cdot}$
( $\mathrm{N}^{0} 22$.),

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$\left(\mathrm{N}^{2} 22.\right)$, nhich is $=\frac{\mathrm{GI}}{\mathrm{CO}}$. This muat be equal (by fuppefition) to the angular velocity where the fame force $m$. GI is applied in the fame inclination to G.The anguise volocity in this cafe mut be $\frac{m \text {.GI.CG }}{\int \rho^{2}}$. Therefure we have $\frac{\mathrm{GI}}{\mathrm{CO}}=\frac{7 \cdot \mathrm{GI} \cdot \mathrm{CG}}{\int \rho r^{2}}$, and $\frac{\mathrm{CO}}{\mathrm{GI}}=$ $\frac{\int p^{7^{2}}}{m \cdot \mathrm{GI} \cdot \mathrm{CG}}$, and $\mathrm{CO}=\frac{\int_{\hat{p}} r^{2}}{122 \cdot \mathrm{CG}} . \quad \mathrm{Alfo}$, as in $\mathrm{N}^{\mathrm{o}} 31$. $\mathrm{GO}=\frac{\int A \cdot \mathrm{GA}^{*}}{m \cdot \mathrm{CG}}$.

This point $O$ has feveral remarkable properties,
In the firf place, it is the point of a common heavy body firinging round $C$ by its gravity, where, if all its weight be fuppoled to be concentrated, it will perform its ofcillations in the fame time. For while the body has its natural form, the whole force of gravity may be fuppofed to be exerted nn its centre of gravity. When the matter of the body is collected at O , the force of gravity is concentrated there alfo; and if CG have the fame inclination to the horizon in the firft cafe that CO has in the fecond, the action of gravity will be applied in the fame angle of inclination, and the two bodies will acquire the fame angular velocity; that is, they will defcend from this fituation to the vertical fituation (that is, through an equal angle) in the fame time. Thefe two bodics will therefore ofcillate in equal times. For this reafon, the point $O$ fo taken in the line $C G$, which is the radius vcctor of the centre of inertia, that CO is equ. 1 to $\frac{\int A \cdot \mathrm{CA}^{2}}{m \cdot \mathrm{CC}}$, or $\mathrm{GO}=\frac{\int A \cdot G \mathrm{~A}^{2}}{m \cdot \mathrm{CG}}$, is called the Centre of Oscillition of the body; and a heary point fulpended by a thread of the length CO is called its equivalent or fynchronous pendulum, or the fimple pendulum, correfponding to the body itfelf, which is confidered as a compourd perdulum, or as confilting of a number of fimple pendulums, which by their rigid connection difturb each other's motions.

That CO may be the equivalent pendulum, and O the centre of ofcillation, O muft te in the line CG , otherwife it would not relt in the fame pofition with the body, when no force was keeping it out of jts vertical pofition. The equation $\mathrm{CO}=\frac{\int A \cdot C 4^{2}}{m} \cdot \mathrm{CG}$ only determines the diftance of the centre of ofillation from the centre of fufpenfion, or the length of the entivalent fimple pendilum, but dies not determine the procife point of the body occupied by the centre of ofcillation ; a circumfance alfo neceflary in fome cafes.

Misthematicians have determined the fituation of this point in many cafes of frequent occurrence. Huyghens, in his Horologium Dfcillatorium, and all the beft writers of treatires of mechanics, have given the method of inveftigation at length. The general procef's is, to multioly every particle by the fquare of its difance from the avis of fufpenfion, and to divide the fum of all thefe products by the profuct of the whole quantity of matter multiplied by the difance of its centre of gravity from the fame axis. The quotient is ${ }^{1}$ the diftance of the centre of ofcillation, or the length of the equivalent Smple pendulum: for $\mathrm{CO}=\frac{\int p \cdot q^{2}}{m \cdot \mathrm{CG}}$ $\therefore+=$ (5)
a. If the body is a heavy Atraight line, fufpended by Rotatica one extremity, CO is $\frac{2}{\mathrm{~T}}$ of its length.
b. This is nearly the cafe of a flender rod of a cylindrical or prifmatic mape It would be exactly fo if all the points of a trantrerfe fection were equally diftant from the axis of fufpenfion.
c. If the pondulum is an ifofeles triang ${ }^{1}$ e fulpended by it apex, and vibrating perpendicularly to its own plane, $C O$ is $\frac{1}{3}$ of its height.
d. I his is nearly true of a very flender triangle (that is, whofe height many times exceeds its bafe) fivinging round its vertex in any direction.
e. In a very flender cone or pyramid fwinging from its vertex, CO is $\frac{4}{3}$ of its height nearly.
$f$. If a fphere, of which $r$ is the radius, he fuipended by a thread whofe weight may be neglected, and whofe. length is $/$, the ditance between its centre of fufpenfion and centres of ofcillation is $a+r+\frac{2}{5} \frac{r^{3}}{a+r}$; and the diftance between its centres of bulk and ofcillation is $\frac{r}{3} \frac{r}{a+r^{\prime}}$ Thus, in a common fecond's pendulum, whofe length at London is about $39 \frac{7}{8}$ inches, the centre of ofcillation will be found about $\frac{1}{8}$ of an inch below the centre of the ball, if it be two inches in diameter.
$g$. If the weight of the thread is to be taken into the account, we have the following diltance between the centre of the ball and that of ofcillation, where $B$ is the weight of the ball, $a$ the diftance of the point of iufpenfion and its centre, $d$ the diameter of the ball, and $w$ the weight of the thread or rod; $\mathrm{GO}=\frac{\left(\frac{1}{3} w+\frac{2}{3} \mathrm{~B}\right) a^{3}-\frac{1}{8} w\left(a d+a^{2}\right)}{\left(\frac{1}{2} w+B\right) a-\frac{1}{2} d w}:$ or, if we cas fider the weight of the thread as an unit, and the weight of the ball as its moltiple (or as expreffed by the number of times it contains the weight of the (bread), $\mathrm{GO}=\frac{\frac{3}{6} a}{\mathrm{~B}+\frac{1}{2}}$.

As the point $O$, cetermined as above, by making $\mathrm{CO}=\frac{\int p r^{3}}{m \cdot \mathrm{CG}}$, is the centre of ofcillation of the body turning round $C$, fo $C$ is the centre of ofcillation of the fame body turning round O : for, refurning A.C A in place of $p$ r. we have $\int A . C A^{2}=m . C O . C G$. Now $\int A \cdot C A^{3}=j, A \cdot O A^{2}+\int A \cdot O C^{2}-\int A . O C .2 O d,(E u-$ clic, II. 12. 13.), or m.COCG $=f A \cdot \mathrm{OA}^{3}+f A$. $\mathrm{OC}^{2}-\int \mathrm{A} . \mathrm{OC} .20 d^{2} . \quad$ But $\int A . \mathrm{OC}^{2}=m . \mathrm{OC}^{2},=m$. $\mathrm{OC.OC}$; and (by the nature of the contre of gravity) $\int$ A.OC. $20 a \dot{a}=m$. OC. 2 OG. Therefore we have $n . \mathrm{CO} \cdot \mathrm{CG}=\int \mathrm{A} . \mathrm{OA} \mathrm{A}^{2}+\pi \cdot \mathrm{OC} \cdot \mathrm{OC}-m . \mathrm{OC} .2 \mathrm{OG} ;$ and $\int A . O A^{2}=m . O C . C G+m . C O .2 O G-m . C O . C O$, $=m . \mathrm{CO}(\mathrm{CG}+2 \mathrm{OG}-\mathrm{CO})$. Put CG +2 OG is equal to $\mathrm{CO}+\mathrm{OG}$, and $\mathrm{CG}+2 \mathrm{OG}-\mathrm{CO}$ is equal to $O G$. Therefore $\int A . O A^{3}=m \cdot C O . O G$, and $\mathrm{CO}=\frac{\int \mathrm{A} \cdot \mathrm{OA}^{2}}{12 . O G}, w h h_{3}$ is all that is wanted (according to $\mathrm{N}^{\circ}$ 39.) to make C the centre of ofcillation when, O is the centre of fulpenfion.

If the point of fufpenfion, or axis of rotation, be anywhere in the circumference of a circle of which $G$ is the centre, the point $O$ will be in the circumference of !another circle of which G is the centre: for, by $\mathrm{N}^{0}, 38$.

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fivation $\underbrace{\text { Rutation }}$ $\mathrm{GO}=\frac{\mathrm{SA.GA}}{m \mathrm{CG}}$. Now $\int A, G A^{2}$ is a fixed quantity; and therefore white CG is confant, OG will alfo be conftant.
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We may allo obferve, that the diflance of the axis from the centre $S$ of gyration is a mean proportional between its diftance from the centre $G$ of gravity and the centre O of ofcillation: for we had ( $\mathrm{N}^{\mathrm{o}}$.) $\mathrm{CS}^{1}=\frac{f p r^{2}}{m}$, and $\mathrm{CO}=\frac{\int p-r^{2}}{m \cdot \mathrm{CG}}$, and therefore $\mathrm{CO} . \mathrm{CG}=\frac{\int p r^{2}}{m}=\mathrm{CS}^{2}$ and $\mathrm{CO}: \mathrm{CS}=\mathrm{CS}: \mathrm{CC}$.

We fee alfo that the diftance CO is that at which an external force muft be applied; fo that there may not be any preflure excited in the axis upon its points of fupport, and the axis may be a fpontaneous axis of converfion. This we learn, by comparing the value of CO with that of CP in art. 30. This being the cafe, it follows, that if an external force is applied in a direction palfing through O , perpendicularly to CO , it will produce the fame initial velocity of the centre as if the body were free: for as it exerts nio preflure on the points of fupport, the initial motion muft be the fame as if they were not there.

If the external force be applied at a greater diffance in the line CG, the velocity of the centre will be greater than if the body were free. In this cafe the preffure excited in the axis will be backward, and confequently the points of fupport will re-act forward, and this re-action will be equivalent to another external force con!piring with the one applied at O . Some curious confequences may be deduced from this.

If the external force be applied to a point in the line GC lying beyond C , the motion of the centre will be in the oppofite direction to what it would have taken had the body been free, and fo will be the preffures exerted by the points of fupport on the axis.

A force $m$. GI applied at P produces the initial progreflive motion $m . \mathrm{GH}$; and any force applied at O , perpendic:larly to CG, produces the fame motion of the centre as if the body were free. Therefore a force $m$.GH applied thus at O will produce a motion $m$.GH in the centre, and therefore the fame motion which $m$.GI applied at P would produce; and it will produce the monientum $m$.GI at P . Therefore if a force equal to the progreffive motion of the body be applied at O , perpendicularly to CO, in the oppofite direction, it will ftop all this motion without exciting any ftrain on the axis or points of fupport. Therefore the equivalent of all the motions of each particle round C is conceived as pafling through $O$ in a direction perpendicular to CO ; and the blow given by that point to any body oppofed to its motion is confideted as equal to the compounded effect of the rotatory motion, or to the progreffive motion of the body combined with its rotation.

For fuch reafons O has been called the Centre of Percusston of the body turning round C. But the name of centre of mincmum, or rotatory effort, would have been more proper.

We can feel this properly of the point $O$ when we give a fmart blow with a fick. If we give it a mofion round the joint of the wrift only, and frike fmartly
witt1 a point confiderably nearer or more remote than two-
Fortation thieds of its length, we feel a painful fock or wrench in the hand; but if we ftrike with that point which is precifly at two-thirds of its Iength, we feel no fuch difagreeable furain.

Mechanicsl writers frequently fay, that O confidered as the centre of percuflion, is that with which the moit violent blow is ftruck. But this is by no means true; $O$ is that point of a body turning round $C$ which gives a blow precifely equal to the progreffive motion of the body, and in the fame direction. As we have already faid, it is the point where we may fuppofe the whole rotatory momentum of the body accumulated. Every particle of the body is moving in a particular direction, with a velocity proportional to its diftance from the axis of rotation; and if the body were ftopped in any point, each particle tending to continue its motion endeavours to drag the reft along with it. Whatever point we call the centre of percuffion fhould have this property, that when it is ftopped by a fufficient force, the whole motion and tendency to motion of every kind fhould be ftopped ; fo that if at that inftant the fupports of the axis were annihilated, the body would remain in abfolute reft.

The confideration of a very fimple cafe will flow that this point of foppage cannot be taken indifferently. percuffion ${ }_{3}$ Suppofe a fquare or rectangular board $\mathrm{CDD}^{\prime} \mathrm{C}^{\prime}$, fig. 4. how deadvancing in the direction GHI, perpendicular to its fined. plane, without any rotation. Let $G$ be the centre of Fig. 4 . gravity, and the middle of the board. It is evident, that if a force be àpplied at $G$, in the direction $H G$, and equal to the quantity of motion of the board, all motion will be ftopped : for when the point $G$ is flopped, no reafon can be affigned why one part of the board fhall advance more than another. The fame thing muft happen if the board be ftopped by a ftraight edge put in its way, and pafing through $G$ : for example, in the line LGM, or $g$ G $h$. But if this edge be fo placed that the board fhall meet it with the line IPK, then, becaufe this line does not divide it equally, and becaufe there is a greater quantity of motion in the part CIKC' than in the part $I^{\prime} D^{\prime} \mathrm{K}$, though the progrefive motion may be ftopped, the upper part will advance, and a motion of rotation will commence, of which IK will be the axis. Now fuppofe that the board, inftead of having been moving along in the direction $G H$, every part with the fame velocity had been fwinging round the axis $\mathrm{CC}^{r}$ like a pendulum, from the pofition $\mathrm{C} d d^{\prime} \mathrm{C}^{\prime}$, and that it is ftopped by a ftraight edge meeting it in the line LGM parallel to $\mathrm{CO}^{\prime}$, in the moment that it has attained the vertical pofition $C D D^{\prime} \mathrm{C}^{\prime}$; all its motion will not be flopped: for, although LGM divides the board equally, there is more motion in the lower part LDD'M than in the upper part CLMEC', becaufe every particle of the lower part is defcribing larger circles and moving fwifter. Therefore when the line LGM is ftopped, there will be a tcndency of the lower part to advance, and the pivots C and C of the axis will be prefied backwards on their holes; and if the holes were at that inftant removed, a rotation would commence, of which LM is the axis. The board muft therefore be ftopped in fome line 1PK below LGM, and fo fituated, that the fum of all the momenta on each fide of it Shall be equal. This alore

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Rptation can hinder a rotation round the axis IPIE. From what has been already demonitrated, it appears, that this will be prevented if the edge meets the board in a line IPK paffing through $O$ the centre of ofcillation, which is fituated in the line $g \mathrm{G} / 2$ paffing through the centre of IOK may therefore be called the line or axis of percuffion.

But any point of this line will not do. It is evident that if the board fhould meet the fixed edge in the line $\mathrm{gGO} h$, all motion will be ftopped, for the motions on each fide are equal, and neither can prevail. But if it be topped in the line $p \mathrm{P} q$, there is more motion in the part $p q \mathrm{D}^{\prime} \mathrm{C}^{\prime}$ than in the part $p q \mathrm{DC}$; and if the fupports at C and $\mathrm{C}^{\prime}$ were that inftant taken away, there would commence a rotation round the axis $p q$. Confequently, if the body were not fopped by an edge, but by a fimple point at $P$, this rotation would take place. The motions above and below P would indeed balance each other, but the motions on the rigat and left fides of it would not. Therefore it is not enough for determining the centre of percuflion that we have afcertained its diftance $g \mathrm{O}$ from the axis of rotation by the equation $g \mathrm{O}=\frac{\int_{p} r^{2}}{m \cdot g \mathrm{G}}$. This equation only gives us the line IOK parallel to $\mathrm{CC}^{\prime}$, but not the point of percuffion. This point (fuppofe it P) muft be fuch that if any line $p \mathrm{P} q$ be drawn through it, and confidered as an axis round which a rotation may commence, it /ball not commence, becaufe the fum of all the momenta round this axis on the right fide is equal to the fum of the momenta on the left. Let us inveltigate in what manner this condition may be fecured.

Let there be a body in a tlate of rotation round the axis $\mathrm{D} d$ (fig. 5.), and let G be its centre of gravity, and CGO a line through the centre of gravity perpendicular to the axis DC d. At the moment under confideration, the centre of gravity is moving in the direction GH, perpendicular to the radius vector GC, as alfo perpendicular to a plane paffing through the lines $\mathrm{D} d$ and CG. Let O be the centre of ofcillation. Draw the line $n \mathrm{O}$ parallel to $\mathrm{D} d$. The centre of percuffion muft be fomerrhere in this line. For the point of percuffion, wherever it is, muft be moving in the fame direction with the progrefive motion of the body, that is, in a direction parallel to GH1, that is, perpendicular to the plane DCG. And its diftance from the axis $\mathrm{D} d$ muft be the fame with that of the centre of ofcillation. Thefe conditions require it therefore to be in fome point of $n \mathrm{O}$. Suppofe it at P . Draw $\mathrm{P} p$ perpendicular to $\mathrm{D} d$. P muft be fo fituated, that all the momenta tending to produce a rotation round the line $p$ ? may balance each other, or their fum total be nothing.

Now let A he any particle of the body which is out of the plane DCG, in which lie all the linies CGO, $p \mathrm{P}, n \mathrm{OP}$, \&sc. Draw is radius vefor $\mathrm{A} a$ perp-adicular to $\mathrm{D} a$, and drav a $n$ parallel to CG, and therefore perpendicular to Da. The plane $A$ an is porpendicular to the plane D $a n$ (Euclid, XI. 4.). Draw AL perpendicular to $A a$, and $A /$ perperdicular to an. Then, while the body is begiming to turn round D $\boldsymbol{d}$, the incipient motion of the par icle A is in the direation AL, perpendicular to its radius vectur $\Lambda a$.

This motion AL may be confidered as compounded of Rotation. the motion A /, perpendicular to the plane DCG, and the motion $/ \mathrm{L}$ in this plane. It is evident that it is A/ only which is oppofed by the external force ftopping the body at P , becaufe $\mathrm{A} /$ alone makes ariy part of the progreffive motion of the centre of gravity in the direction GH.

We have hilherto taken the radii vatores for thie mealurcs of the velocities or motions of the particles. Therefore the quantity of motion or the moring force of A is $\mathrm{A} . \mathrm{A} a$, and this is exerted in the direction AL, and may be conceived as exerted on any point in this line, and thercfore on the point L. That is, the point L might be confidered as urged in this direction with the force A.A $a$, or with the two forces of which the force A.A $a$ is compounded. The force in the direction AL is to the force in the direction $\mathrm{A} /$ as AL to A/, or as $a$ A to $a /$, becaufe the triangles A/L and a / A are fimilar. Therefore, inftead of fuppofing the point L urged by the force $\mathrm{A} . \mathrm{A} a$, acting in the direction AL , we may fuppofe it impelled by the force A. $a l$, acting perpendicularly to the line $\mathrm{A} l$, or to the plane DCG, and by the force A.A ! acting in this plane, viz. in the direction L $n$. This laft force has nothing to do with the percufion at $P$. Thercfore we need confider the point $L$ as only impelled by the force A.A \% The momentum of this force, or iis power to urge the plane DCG forward in the direction GH, by turning it round $\mathrm{D} d$, mult be A.al. a L. (N. B. This is equal to $\mathrm{A} A a^{2}$, becaufe $a /: a \mathrm{~A}=a \mathrm{~A}: a \mathrm{~L}$, and A.A $a^{2}$, has been flown long ago to be the general expreffion of the rotatory momentum of a particle).

Draw $\mathrm{L} m$ perpendicular to $\mathrm{P} /$. If we confider $P_{P}$ as an axis about which a motion of rotation may be produced, it is plain that the momentum of the point $L$ to produce fuch a rotation will be A. $a / . \mathrm{L} m$. In like manner, its momentum for producing a rotation round $n \mathrm{P}$ would be A.al.Ln. In general, its momentum for producing rotation round any axis is equal to the product of the perpendicular force at L (that is, A.al) and the dilance of $L$ from this axis.

In order therefore that P may be the centre of percuflion, the fum of all the forces A.al.L in mult be equal to nothing; that is, the fum of the forces A.al.L $m$ on one fide of this axis $\mathrm{P}_{\rho}$ muft be balanced by the fum of forces $\mathrm{A}^{\prime} \cdot a^{\prime} l^{\prime} . \mathrm{L}^{\prime} \mathrm{m}^{\prime}$ on the other fide. To exprefs this in the ufual mamner, we mult have $\int \operatorname{A} \operatorname{ain} \mathrm{P}=0$. But $n \mathrm{P}=n \mathrm{O}$-OP. Therefore $\int A \cdot a \ln \mathrm{O}-\int \mathrm{A} \cdot a l \cdot \mathrm{OP}=0$, and $\int \mathrm{A} \cdot a \ln \mathrm{O}=$ fA.al.OP. But OP is the fame wherever the particle A is fituated; and becaufe G is the centre of gravity, the fum of all the quantities is $\mathrm{A} . a /$ is $m$.GC, $n$ being the quantity of matter of the body; that is, $|\hat{A} \cdot a|=m \cdot \mathrm{GC}$, and $\int \mathrm{A} \cdot a!\cdot \mathrm{OP}=m \cdot \mathrm{GC} \cdot \mathrm{OP}_{1}=$ A.al."O. Hence we derive the final equation $\mathrm{OP}=\frac{\int A \cdot a l \cdot n \mathrm{O}}{m \cdot \mathrm{GC}}$.

Theref re the centre of percuffion P of a body turning round the axis $\mathrm{D} d$ is determined by thefc conditinns: Ift, It is in the plane DCG paffing through the axis and the centre of gravity; 2 d , It is in a line $n \mathrm{O}$ paffing throuth the centre of olcillation, and pazallel to the asis, and theiefore its diflance $P_{P}$ from the axis of rotation

## \# OT [ <br> $3=4$ ]

$\underbrace{\text { Retation. }}$ rotation is $\frac{\int \mathrm{A} \cdot \mathrm{A} a^{3}}{r: C G}$; and, 3 d , Its difanance $O P$ from the centre of of cillation is $\frac{f \mathrm{~A} \cdot a \mathrm{l} \cdot n \mathrm{O}}{m \cdot \mathrm{CG}}$.

54 How both centres coincide.

In crde: therefore that the centres of ofcillation and percuffion may coincide, or be one and the fome, OP mutt vanifh, or $\mathrm{SA} \cdot \mathrm{C} \ln \mathrm{Q}$ muft be equal to nothing, that is, the fm of a.ll the quantities A.al.n O on one fide of the line CO mult be equal to the fum of all the quantities $\mathrm{A}^{\prime} \cdot a^{\prime} l^{\prime} \cdot n^{\prime} \mathrm{O}$ on the other fide.

Let $\mathrm{D} a \delta \Delta$ be a plane paffing through the axis $\mathrm{D} d$ Ferpendicular to that other plane DCG through it, in which the centre of gravity is fituated, and let $\mathrm{C}_{\xi \gamma x}$ be a third plane paffing through the centre of gravity perpendiculer to both the planes $\mathrm{D} d \delta \Delta$ and DCG. Draw $/ r$ and $a$ \& perpendicular to $a \mathrm{~L}$, and $r \dot{a}$ perpendicular to $c r$, and then draw $\mathrm{A} a, \mathrm{~A}$ a perpendicular to $a \alpha$ and $r \dot{\alpha}$. It is evident that $A_{\alpha}$ and $A \dot{\alpha}$ are reSpectively equal to $a l$ and $/ r$, or to $a l$ and $n o$; fo that the two factors or confituents of the momentum of a particle A rourd the centre of percufion are the diflances of the particle from the planes $\mathrm{D} d \boldsymbol{\Delta}$ and $x<g \gamma$, both of $w$ hich are perpendicular to that plane through the axis in which the centre of gravity is placed.

We may fee, from thefe obfervations, that the centres of ofciliation and percuffion do not neceffarily coincide, and the circumitance which is neceflary for their coincidence, viz. that $\int A . A \approx A \dot{\varepsilon}$ is equal to $O$. It is of importance to keep this in mind.

There occurs here another obfervation of great importance. S:nce every force is balanced by an equal force acting in the oppofite direction, and fince all motion progreflive and rotalory is ftopped by an external force applied at P in the direction $q \mathrm{P}$, it follows that, if the body were at reft, and the fame force be applied there, it will fet the body in rotation round the axis $\mathrm{D} d$, in the oppofite direction, with the fame angular velocity, and without any preffure on the pivots $D$ and d. For whatever motion of the particle A , in the direetion AL, was flopped by a part of the external force applied at $P$, the fame motion will be produced by it in the quiefcent particle A in the oppofite direction LA. And as the pivots D and $d$ had no motion in the cafe of the body turning round them, they will acquire no motion, or will have no tendency to motion, or no preffure will be exerted on them, in the laft cafe. Therefore when an external force is applied at $P$ in a direction perpendicular to the line $\mathrm{P} p$, the line $\mathrm{D} d$ will become a momentary fpontaneous axis of converfion, and the incipient motion of the body will perfectly refemble the rotation of the fame body round a fixed axis $\mathbf{D} d$.
There is another fet of forces of which we have as yet taken no notice, viz. that part of each force AL which is directed along the plane DCG, and is reprefented by / L when the whole force is reprefented by AL, or by A / when the whole force is reprefented by Ac . Thefe forces being all in the plane DCG, and in the direction CG or GC, can have no effect on the rotation round any axis in that plane. But they tend, fol 152 e ely, to produce rotation round any axis paffing through this plane perpend:cularly. And the momentum of $A$ to produce a rotation round an axis
perpendicular to this plane, in O for inflance, mutt evi- Romatiso. dently be $\mathrm{A} . \mathrm{A} / . n \mathrm{O}$, and round P it mult be $\mathrm{A} . \mathrm{A} / . r \mathrm{P}$, \&c. We thall have occafion to confider thefe afterwards.

It is ufual in courfes of experimental philofophy to of balls $5^{58}$ illuilrate the mutions of bodies on inclined planes and and cylin. curved furfaces by experineents with balls rolling down ders rolling thefe furfaces. But the motions of fuch rolling balls cluned are by no means juft reprefentations of the motions planes. they reprefent. The ball not only goes down the inclined plane by the action of gravity, but it alfo turns round an axis. Force is neceffary for preducing this rotation; and as there is no other fource but the weight of the ball, part of this weight is expended on the rotation, and the remainder caly accelerates it down the plate. The point of the ball which refts on the plane is bindered from fliding down by friction; and therefore the ball! tumbles, as it were, over this point of contact, and is initantly catched by another point of contact, over which it tumbles in the fame matner. A cylinder rolls down in the very fame way; and its motion is nearly the fame as if a fine thread had been lapped round it, and one end of it made faft at the head of the inclined plane. The cylinder rolls down by unwinding this thread.

The mechanifm of all fuch motions (and fome of Mt ch c anim them are important) may be underitood by coufidering of thefe them as follows: Let a body of any fhape be connect- motions ed with a cylinder FCB (fig. 6.) whole axis pafies Fig. 6. through G the centre of gravity of the body. Suppofe that body fufpended from a fixed point A by a thread wound round the cylinder. This body will defeend by the action of gravity, and it will alfo turn round, unwinding the thread. Draw the horizontal line OGC. It will pafs through the point of contact C of the thiread and cylinder, and C is the point round which it bigins to turn in defcending. Let $O$ be its centre of ofcillation corre Ponding to the momentary centre of rotation C. It will begin to defend in the fame manner as if all its matter were collected in O : for it may be confidered, in this inflant, as a pendulum fufpended at C . But in this cafe O will defcend in the fame manner as if the body were falling freely. Therefore the velocity of $G$ (that is, the velocity of defcent) will be to the velocity with which a heary body would fall as CG to CO. Now fince the points C, G, O , are always in a horizontal line, and the radius CG is given; as alfo $\mathrm{CO}\left(\mathrm{N}^{0} 48\right.$.) the velocity of a body falling freely, and of the body unwinding from this thread, will always be in the fame proportion of CO to CG, and fo will the fpaces defrribed in any given time. And thus we can compare their motions in every cafe when we know the place of the centre of ofcillation.

Cor. 1. The weight of the defcending body will be to the tenfion of the thread as CO to GO: for the tenfion of the thread is the difference between the momentum of the rolling body and that of the body falling freely.

Obferve, that this proportion between the weight of the body and the tenfion of the thread will be always the fame: for it has been demonftrated already, $\mathrm{N}^{\circ}{ }_{4}$. that if C be in the circumference of a circle whofe centre is $\mathrm{G}, \mathrm{O}$ will be in the circumference of another

Rotation. circle round the fame centre, and therefore the ratio of CG to CO is conftant.
$6 t$
$*$
$\rightarrow+$
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62
Cafe of peridulous bodet.

Cor. 2. If a circular body FCB roll down an inclined plane by unfolding a thread, or by frietion which prevents all fliding, the face defcribed will be to that which the body would defcribe freely as CG to CO : for the tendency down the inclined plane is a determined propartion of the weight of the body. The motion of rotation in thefe cafes, both progrcflive and whirling, is uniforsly accelerated.
Something of the fame kind obtains in common pendulous bodies. A ball hung by a thread not only ofcillates, but alfo makes part of a rotation; and for this reafon its ofcillations differ from thofe of a heavy point hanging by the fame thread, and the centre of ofcillation is a little below the centre of the ball. A ball hung by a thread, and ofcillating between cycloidal cheeks, daes not ofcillate like a body in a cycloid, becaule its centre of ofcillation is continually fhifting its place. Huyghens avoided this by fufpending his pendulous body from two points, fo that it did not change its attitude during its ofcillation. If our fpringcarriages were hung in this manner, having the four lower flaples to which the ftraps are fixed as far afunder as the four upper ftaples at the ends of the fprings, the body of the carriage would perform its ofcillations without kicking up and down in the difagreeable manner they now do, by which we are frequently in danger of ftriking the glaffes with our heads. The fwings would indeed be greater, but incomparably eafier ; and we could hold things almolt as feadily in our hand as if the carriage were not fivinging at all.

This will fuffice for an account of the rotation round fixed axes, as the foundation for a theory of machines actually performing work. The limits of our undertaking will not allow us to do any more than juft point
63 out the method of applying it.
Method of applying this theory of rotation to practice.

Let there be any machine of the rotatory kind, i. e. compoled of levers or wheels, and let its conflruction be fuch, that the velocity of the point to which the power is applied (which we fhall call the impelled point) is to the velocity of the working point in the ratio of $m$ to n. It is wel! known that the energy of this machine will be the fame with that of an axis in peritrochio, of which the radii are $m$ and $n$.

Let $p$ exprefs the actual preffure exerted on the impelled point by the moving power, and let $r$ be the actual preflure or refiffance exerted on the working point by the work to be performed. Let $x$ be the inertia of the power, or the quantity of dead matter which muft move with the velucity of the impelled point in order that the moving power may act. Thus the moving power may be the weight of a bucket of
*. water in a water-wheel ; then $x$ is the quantity of matter in this bucket of water. Let $y$ in like manner be the inertia of the work, or matter which muf be moved with the velocity of the workins-point, in order that the work may be performed. Thus $y$ may be a quantity of water which mult be continually pulhed along a pipe. This is quite different from the weight of the water, though it is proportional to it, and inay be menfured by it.

Let $f$ be a preflure giving the fame rcfiftance when kapplied at the working point with the friction of the machine, and let $a n^{2}$ be the momentum of the machine's

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inertia, viz. the fame as if a proper quaritity of matter Rotation. $a$ were attached to the working-point, or to any point at the fame diftance from the axis.

This flate of things nasy be reprefented by the wheel and axle PQS (fig. 7.) where $x$ and $y$ and $a$ are repre- fiz 7 . fented by weights acting by lines. $P$ is the impelled point, and R the working point ; CP is $m$ and CR is $n$. The moving force is reprefented by PA, the reliftance by RB, and the fiction by BF.

It is evident that the momentum of the inertia of $x, y$, and $a$ are the fame as if they were for a moment attached to the points P and R .

Hence we derive the following expreffions,

1. The angular velocity $=\frac{p m-\overline{r+f} n}{x \cdot m^{2}+\overline{y+a} n^{2}}$
2. Velocity of the working-point $=\frac{p m n-\overline{r+f} n^{2}}{x m^{2}+y+a} n^{2}$
3. Work performed $=\frac{p m n r-r+f n^{2} r}{x m m^{2}+y+a}$. $i^{2}$. For the
work is proportional to the product of the refiftance and the velocity with which it is overcome.

We fhall give a very fimple example of the utility of thefe formulae. Let us fuppofe that water is to be raifed in a bucket by the defcent of a weight, and that the machine is a fimple pulley. Such a machine is defcribed by Defaguliens ${ }^{*}$, who fays he found it prefe-* Exper. rable to all other machincs. The bucket dipped itfelf Pbil vol in the ciftern. A chain from it went over a pulley, ${ }^{\text {ii. p. }}{ }^{\text {503. }}$ and at its extremity was a flage on which a man could flep from the head of a ftair. His preponderance brought down the flage and raifed the bucket, which difcharged its water into another ciftern. The man quitted the ftage, and walked up fairs, and there he found it ready to receive him, becaufe the empty bucket is made heavier than the emply itage.

Now, if there be no water in the bucket, it is evident, that although the motion of the machine will be the quickeft poffible, there will be no work perfurmed. On the other hand, if the loaded flage and the full bucket are of equal weight, which is the ufual ftatement of fuch a machine in elementary treatifes of mechanics, the machine will ftand ftill, and no work will be performed. In every intermediate ftatc of things the machine will move, and work will be performed. There* fore the different values of the work performed muft be a feries of quantities which increafe from nothing to a certain magnitude, and then diminifh to nothing again. The maxim which is ufually received as a fundamental propofition in mechanics, viz, that what is gained in force by the intervention of a machine is lof in time, is therefore falle. There mut be a particular proportion of the velocities of the impelled and workiogpoints, which will give the greatef performance when the power and refiftance are given ; and there is a certain proportion of the power and reflanese twhish will have the fame effice when the ftruture of the machine has previoufly fixed the velocities of the irmp:lled and working points.

This proportion will be found :y treatirg the formula which evprefles the work as a fluxionary quantity, and finding its maximum. Thus, when tle. ratio of the power and refitance is given, and we with to knore what mult be the proporion of the velocities

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Rotation. $m$ and $n$, that we may conffruct the machine accordingly, we have only to confider $n$ as the variable quantity in the third formula, This gives us


This is a fundmental propoftion in the theory of working machines: but the application requires much attention. Some natural powers are not accompanied by any inertia worth minding; in which cafe $x$ may be omitted. Some works, in like manner, are not accompanied by any ineria; and this is a very general cafe. In many eafes the work exerts no contrary frain on the machine at reif, and $r$ is nothing. In moit inflances the intenfity of the power varies with the velucity of the impelled point, and is diminified when this increafes; the refitance or actual prefure at the working point frequertly increafes with the velocity of the working-point. All thefe circumitances muft be attended to; but fill they only modify the general proFofition. Thefe are matters which do not come within the limits of the prefent article. We only took this opportunity of fhowing bow imperfect is the theory of machines in equilibrio for giving us any knowledge of their performance or juit principles of their conitruction.

One thing, however, mutt be particularly attended to in this theory. The forces which are applied to the body moveable round an axis are confidered in the theory as preffures actually exerted on the impelled points of the body or machine, as when a weight is appended to a lever or wheel and axie, aial, by defendirg uniformly, acts with its whele weight. In this cafe the weight nulliplied by its difance from the axis will always exprefs its momentum, and the rotation will (cceteris paritus) be propertional to this product. But in many important cafes our machines are actuated by external impulfions. A body in motion frikes on the impelled point of the machine, and caufes it to turn round its axis. It is natural for us to confider the quantity of motion of this impelling body as tie meafure of our moving farce. Suppofing $n$ to be its quantity of matter, and V its velocity, $n \mathrm{~V}$ appears a very proper meafure of its intenfity. And if it be applied at the diffance CP from the axis of rotation, $n \mathrm{Y} . \mathrm{CP}$ flould exprefs its cnergy, mamentum, or power to turn the machine round C ; and we Glould exprefs the angular velocity by $\frac{n \mathrm{~V} \cdot \mathrm{CP}}{\sqrt{\rho} r^{2}}$. Accordingly, this is the manner in which calculations are ufually made for the conftruction and performance of the machine, as may be feen in almof every treatife of mechanics.

But nothing can be more erroneous, as we fhall fhow by a very fimple inftance. It fhould refult from thefe principles that the angular velocity will be proportional to CP. Let us fuppofe our moving power to be a ftream of water moving at the rate of ten feet per fecond, and that every fecond there palfes 100 pounds of water. We fhould then call our moving force 1005. It is evident, that if we fuppofe the arm of the floatboard on which it ftrikes to be infinitely long, the impelled point can never move fafier than 10 feet in a fecond, and this will make the angular velocity infinitely fmall, inftead of being the greatelt of all. The rota-
tion will therefore certimity be greater if CP be fhotter. We need not examine the caie more minulely.

We mult therefore carefully difinguith between the quantity of molion of the impeling body and its mo-

Diftuction to be macte ving power, as it is modified by its manner of acting. Letween The moving power is the prefiure actually exerted on the the quanimpelled point of the machine. Now the univerfal fact tity of moof the equality of action and reaction in the collifion of moving bodies affures us, that their mutual preflure in their col- power of lifion is meafured by the change of motion which each an mpelfuftains: for this clange of motion is the onily indica- ling body. tion and meafure of the preflure wbich we fuppofe to be its caufe. A way therefore of afcertaining what is the real moving force on a machine actuated by the impulfion of a moving body, is to difcover what quantity of motion is lof by the body or gained by the machine ; for thefe are equal. Having difcovered this, we may proceed according to the propofitions of rotatory motion.

Therefore let AEF (fig. 8.) reprefent a body move- $7^{2}$ able round an axis paffing through C, perpendicular to Fis. 3. the plane of the figure. Let thins body be fruck in the point $A$ by a body moving in the direction FA, and let BAD be a tangent to the two bodies in the point of collifion. It is well knorm that the mutual actions or two folid bodies are always exerted in a direction perpendicular to the touching furfaces. Theiefore the mutual preflure of the two bodies is in the dircection $A \mathrm{P}$ perpendicular to AD . Therefore let the motion of the impelling body be refilved into the directions AP and AD . The force AD has no thare in the preflure. Thercfore let V be the velocity of the impeliing body cftimated in the direciion $\Lambda \mathrm{P}$, and let $n$ be its quanitity of matier. Its quantity of motion in the direction AP' will be $n \mathrm{~V}$ '.

Did AP pafs through C, it is evident that the orily effect would be to prefs the axis on its fupports. Bit AP, the direation of the prefiure, being inclined to $A C$, the point $A$ is forced afide, and in fome fmall moment of time defrribes the little arch A $a$ round the centre C . The point P will therefore defcribe a finall arch $\mathrm{P}_{p}$, fubtending an angle $\mathrm{PC} p=\mathrm{IC} a$. Diaw a o perpendicular to AP, and ad perpendicular to AD. The triangles $d \mathrm{~A} o, \mathrm{ACP}$ are fimilar, and $\mathrm{A} a: \mathrm{A} o=$ $\mathrm{AC}: \mathrm{CP}$. But the angles $\mathrm{AC} a, \mathrm{PC} p$ being equal, the arches are as their radi, and $\mathrm{A} a: \mathrm{P} p=\mathrm{AC}: \mathrm{CP}$, $=\mathrm{A} a: \mathrm{A} 0$, therefore $\varphi p=\mathrm{A} 0$.

Now fince, in confequence of the impulfe, A defribes A $a$ in the mement of time, it is plain that $A 0$ is the frace througb which the impelling body continues to advance in the ciredion of the preflure; and if $\mathrm{T}^{\circ}$ be taken equal to the fpace which it defcribed in an cqual moment before the ftroke, a will exprels the renaising velocity, and $\mathrm{V}-v$ is the velocity loff, and $n(\mathrm{~V}-v)$ is the quantity of motion lof by the impelling body, and is the true meafure of the pieffure exerted. This gives us the whole circumfances of the rotatory motion. The angular velocity will be $\frac{n(\mathrm{~V}-v) \cdot \mathrm{CP}}{\sqrt{ } P 1^{2}}$, and the velocity of the point A will be $\frac{n\left(\mathrm{~V}-\frac{\mathrm{v}}{}\right) \cdot \mathrm{CP} \cdot \mathrm{CA}}{\int \rho P^{2}}$. Call this velocity $u$. The fimilarity of triangles gives v: CA: $\mathrm{CP}=\Lambda a(\mathrm{or} u): \Lambda 0(\mathrm{or} v)$ and $u=\frac{v . \mathrm{CA}}{\mathrm{CP}}$. There-
 $v=\frac{n \cdot \mathrm{~V} \cdot \mathrm{C}^{2}}{\left(\rho^{2}\right)^{2}+n \cdot \mathrm{CL}^{3}}$, and thus we have obtained the value of $v$ in known quantities; for $n$ was given, or fup. pofed known; fo allo was V : and fince the direction FA was given, its diffance CP from the axis is given; and the form of the body being known, we can find the value of $\int \rho r^{2}$. Now we have feen that $v$ is alfo the velocity of the point P ; therefore we know the ablolete velocity of a given point of the body or machine, and confequently the whole rotatory motion.
We have the angular velocity $=\frac{n \mathrm{~V} \cdot \mathrm{CP}}{T_{p} r^{2}+n \cdot \mathrm{CP}^{2}}$ : we fhall find this a maximum when $\int_{p} r^{3}=n \cdot C P^{2}$; and in this cafe $C P=\sqrt{\frac{\sqrt{r^{2}}}{n}}$, and $v=\frac{r}{2} \mathrm{~V}$. So that the greatef velocity of rotation will be produced when the ftriking body lofes $\frac{7}{2}$ of its velocity.

What we have now delivered is fufficient for explaining all the motions of bodies turning round fixed axes; and we prefume it to be agreeable to our readers, that we have given the inveltigation of the centres of gyration, ofcillation, and percuffion. The curious reader will find the application of thefe theorems to the theory of machines in two very valuable differtations by Mr Euler in the Memoirs of the Academy of Berlin, vols siii. and x . and occafionally by other authors who have treated mechanics in a fcientific and ufeful manner, going beyond the fchool-boy elements of equilibrium.
There remains a very important cafe of the rotation of bodiec, without which the knowledge of the motion of folid bodies is incomplete; namely, the rotation of free bodies, that is, of bodies unconnected with any fixed points. We hasdly fee an inftance of motion of a free body without fome rotation. A flone thrown from the band, a ball from a cannon, the planets themfelves, are obferved not only to advance, but alfo to whirl round. The famous problem of the preceffion of the equinoxes depends for its folution on this doctrine; and the theory of the working of dlips has the fame foundation. We can only turch on the leading propofitions.

We need not begin by demonftrating, that when the direction of the external force pafles through the centre of the body, the body will advance without any rotation. This we confider as familiarly known to every perfon verfant in mechanics; nor is it neceffary to demonftrate, that when the direction of the moving force does not pafs through the centre of gravity, this centre will fill advance in a direction parallel to that of the moving force, and with the fame velocity as if the direction of the moving force had paffed through it. This is the immediate confequence of the equality of action and reaction obferved in all the mechanical phenomena of the univerfe.

But it is incumbent on us to demonfrate, that when the direction of the moving force does not pafs through the centre of gravity, the body will not only advance in the direction of the moving force, but will allo turn round an axis, and we muft determine the pofition of this axis, and the relation fubfifting between the progreffive and rotatory motions.

The celebrateil Jolin Bernoulli was the frit who con- Rotation. fidered this fubject; and, in his Difquifitiones Mechanticondynamica, he has demonftrated feveral propufitions concerning the fipontaneous axis of converfion, and the motions alifing from eccentric external forces: and although he effumed for the leading principle a propofition which is true only in a great number of cates, he has determined the rotation of fpherical bodies with great accuracy.

This combination of motions will be palpable in fome fimple cafes, fuch as the folloring: Let two equal bodies A and B (fig. 9.) be connected by an inflexible rod (of which we may neglect the inertia for the prefent). Let G be the middle point, and therefore the centre of gravily, Let an external force act on thie point $P$ in the direction $F P$ perpendicular to $A B$, and let AP be double of PB. Alfo let the force be fuch, that it would have cauled the fyftem to have mored from the fituation AB to the fituation $a b$, in an indefinitely fmall moment of time, had it acted immediately on the centre G. G would in this cafe have deicribed $\mathrm{G} g$, A would have defcribed A $a$, and B would have delcribed $\mathrm{B} b$, and $a b$ would have been parallel to AB : for the force impreffed on A would have been equal to the force imprefied on $B$; but becaufe the force acts on P , the force imprefled on A is but one half of that impreffed on B by the property of the lever: therefore the initial motion or acceleration of $A$ will be only half of the initial motion of $B$; yet the centre $G$ muft fill be at $g$. We flaill therefore afcertain the initial motion of the fyftem, by drawing through $g$ a line $\alpha g \beta$, fo that $A$ a fhall be $\frac{1}{2}$ of $B \beta$. This we thall do by making $\mathrm{AC}=\mathrm{AB}$, and drawing $\mathrm{C} \approx \mathrm{g} \beta$. Then $\alpha ; \beta$ will he the pofition of the fyflem at the end of the moment of time. Thus we fee that the body muit have a motion of rotation combined with its progrelizye motion.
And we deduce immediately from the premiles that Huw mothis rotation is performed round an axis pafing through tion is perthe centre of gravity G: for fince the centre defcribes a fraight line, it is never cither above or below the axis of rotation, and is therefore always in it. This is a fundamental theorm, and our fabequent inveltigation is by this means greatly fimplified, being thus reduced to two problems: 1. To determine in what direction the axis paffes through the centre of gravity. 2. To determine the angular velocity of the rotation, or how far the centre mult advance while the body makes one turn round the axis. This eftablifhes the relation between the progreffive and rotatory motions. It will contribute to our better conception of both thefe problems to fee the refult in the prefent fimple cale.

It is evident, in the firft place, that the impreflions made on A and B are in lines $\mathrm{A} a, \mathrm{~B} b$ parallel to FP and $G g$; and therefore the motions of the points $A$, G, and B, are made in one plane, viz. the plane FPG. The axis of rotation therefore mult be a line drawn through G, perpendicular to this plane. If we give it any other pofition, one of the points $\mathrm{A}, \mathrm{B}$, or both of them, muft quit this plane.

In the next place, in $b a$ produced take $b c=B C$. Then fuppofing AC to be a rigid line conneded with the fyftem, it is evident that if there had been no rotation, the line BC would have kept parallel to its firft pofition, and that at the end of the moment of time C

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Rotation. weuld have been at $c$. The point C therefore has had, by the rotation, a backward motion $c \mathbf{C}$, relative to the centre $G$ or $g$, and this motion is equal to the progrelfive motion $G g$ of the centre; therefore if we make Girequal to the circumference of a circle whofe radius is ${ }^{\circ} \mathrm{CG}$, the body will make one rotation round the centre of gravity, while this centre moves along $\mathrm{G}_{\boldsymbol{\gamma}}$; and thus the relation is eftablifhed between the two motions.

But farther, the point C has, in fact, not moved out of its place. The incipient motion has therefore been fuch, that C has become a fpontaneous centre of converfion. It is eafy to fee that this mult always be the cafe, whatever may be the form of the rigid body or fyftem of particles connected by inflexible and inextenfible lines. Since the fyftem both advances and turns round an axis paffing through its centre of gravity, there maft be fome point in the fyftem, or which may be conceived as connected with it by an inflexible line, which moves backward, by the rotation, as faft as the centre advances forward. A line drawn through this point parallel to the axis muit in this inftant be at reft, and therefore muft be a fpontameous axis of converfion. And, in this inftant, the combined motions of rotation round an axis paffing through the centre of gravity and the motion of progreffion, are equivalent to, and actually conftitute, an incipient fimple motion of rotation round another axis parallel to the former, whofe pofition may be afcertained. But it is neceffary to eftablifh this propofition and its converfe on clearer evidence.

Therefore let G (fig. IO.) be the centre of gravity of a rigid fyitem of particles of matter, fuch as we fuppore a folid body to be. Let this fyftem be fuppofed to turn round the axis Gg, while the axis itfelf is moving forward in the direction and with the velocity GI. Let the rotation be fuch, that a particle A has the direction and velocity $A h$. Let us firf fuppofe the progreflive motion GI to be perpendicular to the axis $\mathrm{G} g$. It will therefore be parallel to the planes of the circles defcribed rouod the axis by the different particles. Let CGg be a plane perpendicular to GI. It will cut the plane of the circle defcribed by $A$ in a ftraight line $c g$, and $g$ will be the centre round which A is tarning. Therefore A $\xi$ will be the radius vector of $A$, and $A h$ is perpendicular to $A g$. Let $A d$ be perpendicular to $c g$, and in Ad take Ae equal to GI or $g i$. It is evident, that the abfolnte motion of A is compounded of the motions $A e$ and $A /$, and is the diagonal $A f$ of the parallelogram A efh. In the line $g c$, which is perpendicular to $\mathrm{G} g$, take $g \subset$ to $g \mathrm{~A}$, as $\mathrm{A} e$ to $\mathrm{A} h$, and draw $c \mathrm{C}$ parallel to $g \mathrm{G}$, and produce $h \mathrm{~A}$ till it cut $c g$ in $n$. We fay that $\mathrm{C} c$ is in this moment a fpontaneous axis of converfion; for, becaufe $\mathrm{A} n$ is perpennicular to $\mathrm{A} g$ and $A d$ to Cg , the angle cg A is equal to $d A n$, or $f h A$. Therefore, fince $c g: g A=f /$ $: h A$, the triangles $c g \mathrm{~A}$ and $f h \mathrm{~A}$ are fimilar, and the angle $g \mathrm{~A} c$ is equal to $h \Delta f$. Take away the common angle $s A$, and the remaining engle $c A f$ is equal to the remaining angle $h \mathrm{~A} g$, and $\mathrm{A} f$ is perpendicular to $A c$, and the incipient motion of $A$ is the fame in refpect of direction as if it were turning round the axis cC. Morcover, A $f$ is to $f k$ or $g i$ as $\Lambda c$ to $c g$. Therefore, both the direction and velocity of the abfolute motion of A is the fame as if the body were turning round the fixed axis 6 C ; and the combiried motion $\mathrm{A} e$ of progref.
fion, and the motion $A h$ of rotation round $G g$, are $R$ otation. equivalent to, and really conftitute, a momentary fimple motion of rotation round the axis $\mathrm{C} c$ given in pofition, that is, de:erminable by the ratio of $\mathrm{A} e$ to $\mathrm{A} h$.

On the other hand, the converie propofition is, that a fimple motion of rotation round a fixed axis $\mathrm{C} c$, fuch that the centre G has the velocity and direction GI perpendicular to CG, is equivalent to, and prodoces a motion of rotation round an axis Gg , along with the, progreffive motion GI of this axis. This propufition is demonitrated in the very fame way, from the confideration that, by the rotation round $\mathrm{C} c$, we have $\dot{c} \mathrm{~A}$ : $c g=A f: g i$. From this we deduce, that $A h$ is perpendicular to $A g$, and that $f h: A h=\dot{c} g: g \mathrm{~A}$; and thus we refolve the motion $A f$ into a motion $A h$ of rotation round $G g$, and a motion A e of progreffion commor to the whole body.

But let us not confine the progreffive motion to the direction perpendicular to the axis Gg. Let us fuppofe that the whole body, while turning round Gg, is carried forward in the direction and with the velocity GK. We can always conceive a plane LGC, which is perpendicular to the plane in which the axis $G g$ and the direction GK of the progreffive motion are fituated.And the motion GK may be conceived as compounded of a motion GI perpendicular to this plane and to the axis ; and a motion of tranflation GL, by which the axis flides along in its own direction. It is evident, that in confequence of the firft motion GI, there arifes a motion of rotation round $\mathrm{C} c$. It is allo evident, that if, while the body is turning for a moment round $\mathrm{C} c$, this line be flid along itfelf in the direction $c \mathrm{C}$, a motion equal to GL will be induced on every particle $A$, and compounded with its motion of rotation AF, and that if $f \varphi$ be drawn equal and parallel to GL, $\phi$ will be the fituation of the particle A when G is in K.

And thus it appears, that when the progreffive motion is perpendicular to the axis of rotationi paffing through the centre of gravity, the two motions progreflive and rotatory are equivalent to a momentary fimbple motion of rotation round a fpontaneous axis of corverfion, which is at relt: but when the progreffive motion is inclined to the axis paffing through the centre, the fpontaneous axis of converfion is fliding in its own direction.

We may conceive the whole of this very diftinetly exematio and accurately by attending to the motion of a gar-fied. den roller. We may fuppofe it fix feet in circumference, and that it is dragged along at the rate of three feet in a fecond from eaft to weit, the axis of the roller lying north and fouth. Suppofe a chalk line drawn on the furface of the roller parallel to its axis. The roller will turn once round in two feconds, and this line will be in contact with the ground at the intervals of every fix feet. In that inftant the line on the roller now fpoken of is at reft, and the motion is the fame as if it were fixcd, and the roller really turning round it. In flort, it is then a fpontaneous axis of converfion.

Now, fuppofe the roller dragged in the fame manner and in the fame direction along a fleet of ice, while the ice is floating to the fouth at the rate of four fect in a fecond. It is now plain that the roller is turning round an axis through its centre of gravity, while the centre is carried in the direction $\int 36^{\circ} 52^{\prime} \mathrm{W}$, at the rate of

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Rotation. five feet per fecond. It is alfo plain, that when the line drawn oa the furface of the fone is applied to the ice, its only motion is that which the ice itfelf has to the fouthward, The motion is now a motion of rotation round this fpontaneons axis of converfion, compounded with the motion of four feet per fccond in the direction of this axis. And thus we fee that any complication of motion of rotation round an axis paffing through the centre of gravity, and a motion of progreffion of that centre, may al:says be reduced to a momentary or incipient motion of rotation round another axis parallel to the former, compounded with a motion of that axis in its own direction.

The demonftration which we have given of thefe two propofitions points out the method of finding the axis $\mathrm{C} c$, the incipient rotation round which is equivalent to the combined progreffive motion of the body, and the rotation round the axis $\mathrm{G} g$. We have only to note the rotatory velocity $\mathrm{A} / 2$ of fome particle A , and its diftance Ag from the axis, and the progrefive velocity GI of the whole body, and then to make GC a fourth proportional to $\mathrm{A} h, \mathrm{GI}$, and $g \mathrm{~A}$, and to place GC in a plane perpendicular to GI, which is perpendicular to $\mathrm{G} g$, and to place C on that fide of $\mathrm{G} g$ which is moving in the oppofite direction to the axis.
In the fimple cafe of this problem, which we exhibited in order to give us eafy and familiar notions of the fubject, it appeared that the retrograde velocity of rotation of the point C was equal to the progreffive velocity of the centre. This mult be the cafe in every point of the circumference of the circle of which CG, fig. 9 . is the radius. Therefore, as the body advances, and turns round G , this circle will apply itfelf in fucceffion to the line CK parallel to $\mathrm{G}_{\gamma}$; and any individual point of it, fuch as C , will deforibe a cycloid of which this circle is the generating circle, CK the bafe, and CG half the altitude. The other points of the body will defcribe trochoids, elongated or contracted aecording is the defribing points are nearer to or more remote from G than the point C is.

It is now evident that all this muft obtain in every afcertained the diflance GC between the axis of rotation paffing through the centre, and the momentary fpontaneons axis of converfion palfing through C , we can then afcertain the zelation between the motions of rotation and progrefion. We then know that the body will make one rotation round its central axis, while its centre moves over a fpace equal to the circumference of a circle of a known diameter.

We muit therefore proceed to the methods for determining the pofition of the point C. This mutt depend on the proportion between the velocity of the general progreffive motion, that ic, the velocity of the centre, and the velocity of fome point of the body.This muft be afcertained by obfervation. In moft cafes whictr are interefting, we learn the pofition of the axis, the place of its poles, the comparative progreflive velocity of the centre, and the velocity of rotation of the different points, in a variety of way; ; and it would not much increafe our knowledge to detail the rules which may be followed for this purpofe. The cireumftance which chiely interefts us at prefent is to know how thefe motions may be produced; what force is neceffary, and how it mult be applied, in order to produce a
given motion of rotation and progreffion ; or what will Rotation be the motion which a given force, applied in a given manner, will produce.

We have already given the principles on which we may proceed in this inveftigation. We have flown the circamfances which determine the place of the centre of percuffion of a body turning round a given fixed axis. This tentre of percufion is the point of the body where all the inherent forces of the whirling body precifely balance each other, or rather where they unite and compofe one accumulated progreflive force, which may then be oppofed by an equal and oppofite external force. If, therefore, the body is not whirling, but at reft on this fixed axis, and if this external foree be applied at the centre of percufion, now become a poins of impulfian, a rotation wil? commence round the tixed axis precifely equal to what had been ftopped by this external force, but in the oppofite direction; or, if the external force be applied in the direction in which the centre of percuffion of the whirling body was moving at the inftant of floppnge, the rotation produced by this impulfe will be the fame in every refpect. And we found that in the inftant of application of this external force, either to fodp or to begin the motion, no preflure whatever was excited on the fupports of the axis, and that the axis was, in this inftant, a fpontancous axis of converfion.
Moreover, we have fhown, art. 84, that a rotation round any axis, whether fixed or fpontaneous, is equivalent to, or compounded of, a rotation round another axis parallel to $i t$, and paffing through the centre of gravity, and a progreffive motion in the direction of the centre's motion at the inftant of impulie.

Now, as the pofition of the fixed axis, and the known difpofition of all the particles of the body with refpect to this axis, determines the place of the centre of percufion, and furnifhes all the mathematical conditions which mult be implemented in its determination, and the direction and magnitude of the force which is produced and exerted at the centre of percufion; fo, on the other hand, the knowledge of the magnitude and direction of an external force which is exerted on the point of impulion of a body not connected with any fixed axis, and of the difpofition of all the parts of this body with refpect to this point of impulion, will furnifh us with the mathematical circumfances which determine the pofition of the fpontaneous axis of converfion, and therefore determine the pofition of the axis through the centre (parallel to the fpontaneous axis of converfion), round which the body uill whirl, while its centre proceeds in the direction of the external force.

The procefs, therefore, for determining the axis of Mude o: progueflive rotation is juft the converfe of the procefs determinfor determining the centre of percuffion. Julm Bernoulli was the firf who confidered the wo- five sota. tion of free bodies impelled by forces whofe line of di- tion the rection did not pafs through their centre of gravity ; and converfe of he takes it for grantect, that fince the body holli advances that for deand turns round an axis paffing through the centre of che cong gravity, this axis is perpendicular to the plane paffing if percure. through the direction of the force, and through the tion. point of impulfion and the centse of gravity. Other authors of the firt name, fuch as Huygliens, Leibuitz, Roberval, \&ec. have thought themlelves obliged to demonftrate this. Their derounftration is as folluns:

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Rotation, Let a body whofe centre of gravity is G (fig. 11.) Fig. If. be impelled at the print $P$ by a force acting in the direction. PQ not paffing through the centre. The inertia of the whole body will refift in the fame manner as if the whole matter were collected is $G$, and therefore the refiftance will be propagated to the point $P$ in the direction GP. The particle P, therefore, is impelled in the direction $P Q$, and refilted in the direction $P A$, and mult therefore begin to move in fome direction PB, which makes the diagonal of a parallelogram of which the fides have the directions $P Q$ and $P A$. The diagonal and fides of a parallelogram are in one plane. P is therefore moving in the plane $A P Q B$ or GPQ, and it is turning round an axis which pafles through $G$.Therefore this axis muf? be perpendicular to the plane GPQ.

It would require 3 feries of difficult propofitions to fhow the fallacy of this reafoning in general terms, and to determine thapofition of the axis through $G$. We fhall content ourfelves with a very fimple cafe, where
Fig. 12. there can be no hefitation. Let A and A (fig. 12.) be two equal balls connected with the axis $a b$ by inflexible lines $\mathrm{A} a, \mathrm{~B} b$, perpendicular to $a b$. Let A $a$ be I , and $\mathrm{B} b_{2}$. The centre of gravity G will evidently be in the line $c \mathrm{G}$ parallel to $\mathrm{A} a$ and $\mathrm{B} b$, and in the middle of $a b$, and $c \mathrm{G}$ is $1 \frac{3}{3}$. Let O be the centre of ofcillation. $\quad c \mathrm{O}$ is $=\frac{\mathrm{A} \cdot \mathrm{A} a^{2}+\mathrm{B} \cdot \mathrm{B} b^{2}}{\overline{\mathrm{~A}+\mathrm{B}} \cdot c \mathrm{G}},=\frac{5}{3} \cdot-$ Draw $A m, B n$ perpendicular to $c G$, and fuppofe the balls transferred to $m$ and $n$. Their centre of ofcillation will be ftill at $O$; and we fee that if the fyftem in this form were fopped at O , all would be in equilibrio. For the force with which the ball A arrives (ty fwinging round the axis) at $m$, is as its quantity of matter and velocity jointly, that is, A.Aa, or I. That of $B$ arriving at $n$ is $B . B b$, or 2 . The arm $m$ of the lever turning round $O$ is $\frac{2}{3}$, and the arm $n \mathrm{O}$ is $\frac{1}{3}$. The forces, therefore, are reciprocally as the arms of the lever on which they act, and their momenta, or powers to turn the line $m n$ round $O$, are equal and oppofite, and therefore balance each other; and therefore, at the inftant of fopping, no preffure is exerted at $c$. Therefure, if any impulfe is made at O , the balls at $m$ and $n$ vill be put in motion with velocities 1 and 2 , and $c$ will ie a fpontaneous centre of converfion. Let us fee whether this will be the cafe when the balls are in their "atural places A and B , or whether there will be any tendency to a rotation round the asis $c \mathrm{O}$. The momentum of A , by which it tends to produce a rotalion round $c \mathrm{O}$ is $\mathrm{A} . A a . \mathrm{A} m,=1 \times \mathrm{A} m$. That of B is $\mathrm{B} \cdot \mathrm{B} b . \mathrm{B} n,=2 \times \mathrm{B} n$. $\mathrm{A} m$ and $\mathrm{B} n$ are equal, and therefore the momentum of $B$ is double that of $A$, and there is a tendency of the fyftem to turn round $c \mathrm{C}$; and if, at the inftant of foppage, the fupports of the xis $a b$ were removed, this rotation round $c \mathrm{O}$ would take place, and the point $b$ would advance, and $a$ would recede, conly remaining at reft. Therefore, if an impulfe were made at $O$, $a b$ would not become a fpontaneous momentary axis of converfion, and $O$ is not the centre of percuffion. This centre mutt be fomewhere in the line OP parallel to $a b$, as at P , and fo fituated that the momenta $\mathrm{A}, \mathrm{A} a, \mathrm{~A} \alpha$ and $\mathrm{B}, \mathrm{B} \beta \cdot \mathrm{B}, \beta$ mey be equal, or that $A_{\infty}$ may tc double of $\mathrm{B} \beta$, or a $p$ double of $b p$. If an impulfe be now made at $P$, the balls $\operatorname{AB}$ will be urged by forces as $I$ ai.d 2 , and
therefore will move as if round the axis $a b$, and there Rotation: will be no preffures produced at $a$ and $b$, and $a b$ will really become a momentary fpontaneous axis of converfon.

Now join G and P. Here then it is evident, that a body or fyflem $A, B$, receiving an impulie at $P^{\prime}$ perperdicular to the plane $a c G$, ecquires to itfelf a fpontaneous axis of converfio: which is not perpendicular to the line joining the point of impulion and the centre of grasity. And we have fhown, in art. 84. that this motion round $a b$ is compounded of a progreflive motion of the whole body in the direction of the centre, and a rotation round an axis pafling through the centre parallel to a $b$. Therefore, in this iyftern of free bodies, the axis of rotation is not perpendicular to the plane palfing through the centre of gravity in the direction of the impelling force.

As we have already obferved, it would be a laborious Difficuty tafk to afcertain in general terms the pofition of the of afcerprogreflive axis of rotation. Although the procefs is taining its the inverfe of that for determining the centre of pert peneral cuffion when the axis of rotation is given, it is a moft ferms. intricate bufineis to convert the fteps of this procefs. The general method is this : The momentum of a particle A (fig. 5.) by which it tends to change the pofition of the axis $\mathrm{D} d$, has for its factors $\mathrm{A} \propto \mathrm{A} /$, and $\mathrm{A} \dot{\alpha}$, which are its diftances from three planes $\mathrm{D} d \delta \Delta$, $\mathrm{DCO} n$, and $\mathrm{C}_{g} \gamma x$, given in pofition. The fum of all thefe muft be equal to nothing, by the compenfation of pofitive and negative quantities. We muft find three other planes (of which only one is in fome meafure determined in pofition, being perpendicular to DCO $n$ ), fo fituated that the fums of fimilar products of the diftances of the particles from them may in like manner be equal to nothing. This is a very intricate problem ; fo intricate, that mathematicians have long doubted and difputed about the certainty of the folutions. Euler, d'Alembert, Frifi, Landen, and others, have at laft proved, that every body, however irregular its fbape, has at leaft three axes paffing through its centre of gravity, round which it will continue to revolve while proceeding forward, and that chefe are at right angles to each other; and they have given the conditions which mutt be implemented in the determination of thefe axes. But they ftill leave us exceedingly at a lofs for means to difcover the pofitions of the axes of a given body which have thefe conditions.

To folve this problem therefore in general terms, would lead to a difquifition altogether difproportioned to our work. We muft reftrict ourfelves to thofe forms of body and fituations of the point of impulfion which adnit of the coincidence of the centres of ofcillation and percuffion; and we muft leave out the cafes where the axis has a motion in the direction of its length; that is, we fhall always fuppofe the fpontaneous axis of converfion to have no motion. Thus se fhall comprehend the phenomena of the planetary motions, fimilar to the preceffion of our equinoetial points, and all the interefting cafes of practical mechianics. The fpeculative mathematical reader will fill up the blanks of this inveltigation by confulting the writings of Euler and D'Alembert in the Berlin Memoirs, Frifi's Cofmographia, and the papers of Mr Ianden, Mr Milner, and Mr Vince, in the Philofophical Tranfactions. But we hope, by means of a beautiful propofition on the com-
pofition

## R O T [ 3H ] R O T

Rutation. pofition of rotatory motions, to enable every zeader to difcover the pofition of the axis of p:ogrefive tuation in every caie which may interef him, wilhout the previsus folution of the intricate problem mentioned above.

Let. IBPC $p b \mathrm{~A}$ (fig. 13.) be a fection of a body

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Fig. 13. through its centre of gravity G, fo formed, that the part $A B P C$ is fimilar, and fimilarly placed with the part $\mathrm{A} b p \mathrm{C}$, fo that the plane $\Lambda \mathrm{C}$ would divide it equally. Let this body be impelled at P in the directuon $\dot{H} \mathrm{P}$, perpendicuiar to the plane AC . The axis round which it will turn will be perpendicular to $G \pi$. Suppofe it at A. Then drawing AB a: $\mathrm{A} b$ to fimilar points, it is plain that $R_{\beta, b}$, are equal and oppo- $^{\text {and }}$ fite; thefe reprefent the ferces which would raite or lower one end of the axis, as has hoen already obferved. The axis therefore will remain perjendicular to $\mathrm{G} \pi$.

Let the body be fo haped, that if the parts to the right and left of the point of impulfe $x$ the impulie is here fuppofed not perpsindicular to the plane AC , but in this plane) are equal and fimilaally placed ; then the momenta round AC mut? balance each other, and the axis EF will have no tendency to go out of the plane ABC $b$ A perpendicular to the :npulie.

Any body whofe thape has thefe two properties will turn round an axis perpendicular to the plane which paffes through the centre of gravity in the direction of the impelling force. This condition is always found in the planets when difluried by the gravitation to a diftant planet: for they are all figures of revolution. The direction of the difturbing or impelling force is always in a plane paffing through the axis and the difturbing body.

With fuch limiations therefore we propofe the following problem :

Let $G$ (fig. 14.) be the centre of gravity of a body in free fpace, which is impelled by an external force $f$, acting in the line FP, which does not pals through the centre. Let $m$ be the number of equal particies in the body, or its quantity of matter. Let the force $f$ be fuch, that it would communicate to the body the velocity $v$; that is, would caufe the centre to move with the velocity $थ$. It may be exprefled by the quantity of motion which it produces, that is, by $m v$, and it would produce the velocity $m v$ on one particle. It is required to determine the whole motion, progreffive and rotatory, which it will produce, and the fpace which it will defcribe during one turn round its axis.
Draw GI parallel and PGC perpendicular to FP, and let GI be taken for the meafure of the progreffive velocity $\varepsilon$.

It has been demonfrated that the centre $G$ will proceed in the direction GI with the velocity $v$, and that the body will at the fame time turn round an axis pafing through G, perpendicular to the plane of the figure, every particle defcribing circles in parallel planes round this axis, and with velocities of rotation proportional to their diffances from it. There is therefore a certain diftance GB, fuch that the velocity with which a particle defcribes its circumference is equal to the progreffive velocity $v$. Let BCD be this circumference. When the particle defcribing this circumference is in the line CGP, and in that part of it which lies beyond $P$ from $G$, its abfolute velocity murt be double that of
the centre $G$; but when it is in the oppofite point $C$, its retrograde velocity veing equal to the progretlive ve-

Rotation. locity of the centre, it muil tie at rell. In every pofition of the body, therefore, that point of the accompanying circunference which is at this extermity of the perpencicular drawn through the centre on the line of direction of the impelling force is at rell. It is at that intant a fpontaneous centre of converfion, and the Alraight line drawn through it perpendicular to the plane of the figure is then a ipontaneous kxis of converfion, and every particle is in a monentary thate of rotation romed this axis, in directions perpendicular to the limes drawn to the axis at right angle, and with veiocities proportional to thefe difances; and lafily, the body advances in the direetion GI through a fpace equal to the circumference BCD , while it makes one turn round G.

Let A be one of the particles in the plane of the figure. Join AC, AG, AP. Draw Ab,Ac, Ad perpendicular to CP, CA, GA. The abfolute motion $\mathrm{A} c$ of A is compounded of the progreflive motion $\mathrm{A} b$ common to the whole body and equal to GI, and the motion $A d$ of rotation round the centre of gravity G . Therefore fince $\mathrm{A} b$ is equal to $v$, and $A c$ is the diagonal of a parallelogram given both in feecies a magnitude, it is alfo given, and (as appears alfo trom the reafoning in art. 85.) it is to GI as $\mathrm{C}_{A}$ to CG.

By the application of the force $m v$ in the direction FP, every particle of the body is dragged out of its place, and exerts a refiffance equal to the motion which it acquires. A part of this force, which we may call $m \dot{v}$, is employed in communicating the motion $\mathrm{A} c$ to A. And, from what has been lately fhown, CG: CA $=\mathrm{GI}: \mathrm{A} c,=v: \mathrm{A} c$, and therefore $\mathrm{Ac}=\frac{v \cdot \mathrm{C} \Lambda}{\mathrm{CG}}$. But farther (agreeably to what was demonfrated in art. 16.) we have $\mathrm{CP}: \mathrm{CA}=\mathrm{Ac}: m \dot{v},=\frac{\text { q. } \mathrm{CA}}{\mathrm{CG}}: m \dot{v}$, and therefore $m \dot{v}=\frac{v . C A^{2}}{C G . C P}$. Therefore the whole force employed in communicating to each particle the motion it really acquires, or $m v$, is equal to the fluent of the quantity $\frac{v \cdot \mathrm{CA}^{2}}{\mathrm{CP} \cdot \mathrm{CG}}$ or $m=\frac{v \cdot / \mathrm{CA}^{2}}{\mathrm{CP} \cdot(\mathrm{CG}}$, and $m . \mathrm{CP} . \mathrm{CG}$ $=\int \mathrm{CA}^{2}$, which by art. 23 . is equal to $\int \mathrm{G} \mathrm{A}^{2}+m \cdot \mathrm{CG}^{2}$. Therefore we have $m . \mathrm{CP}, \mathrm{CG}-m . \mathrm{CG}=\mathrm{CG}=/ \mathrm{GA}^{2}$, or $m \cdot \mathrm{GP} \cdot \mathrm{CG}=\int \mathrm{GA}^{2}$, and finally, $\mathrm{CG}=\frac{\int \mathrm{GA}^{2}}{m \cdot \mathrm{GP}}$.

Now the form of the body gives us $/ \mathrm{GA}^{1}$, and the pofition of the impelling force gives us $m$.GP. Therefore we can compute the value of CG; and if $x$ be the periphery of a circle whofe ridius is unity, we have \%.CG equal to the fpace which the body muft wicribe in the direction GI, while it makes une rotations :ound its axis.

Cor. I. The angular velocity, that is, the number of tarns or the number of degrees which one of the radii will make in a given time, is propostiunal to the i pelling force: for the length of CG depends only ous the form of the body and the fituation of the $r$ int of inipulfion; while the time of defcribing $x$ times this le $\begin{gathered}\text { s.i. } \\ \text { a }\end{gathered}$ is inverelely as the furce.
2. The angular velocity with any given force is as GP:

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Retation. GP: for CG, and confequently the circumference त.CG, deftribed during one turn, is inverfely as GI.

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3. PC is equal to $\frac{\int \mathrm{P} A^{2}}{m \cdot G P}$ : for we have $\int P A^{3}=$ $\int \mathrm{GA}^{2}+m \cdot \mathrm{GP}^{3}$. Therefore $\frac{\int \mathrm{PA}^{2}}{m \cdot \mathrm{GP}}=\frac{\int \mathrm{GA}^{2}}{m \cdot \mathrm{GP}}+$ $\frac{m \cdot G P^{2}}{m \cdot G P},=C G+G P,=C P$.
ico
4. If the point $C$ is the centre of impulfion of the fame body, P will be a fpontaneous centre of converfion (fee art. 41.).
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5. A force equal and oppofite to $m v$, or to $f$, applied at $G$, will top the progreffive motion, but will make no clange in the rotation; but if it be applied at $P$, it will ftop all motion both progreffive and rotatory. If applied between $P$ and $G$, it will ftop the progreflive motion, but will leave fome motion of rotation. If applied beyond $P$ it will leave a rotation in the oppofite direction. If applied beyond $G$, or between $G$ and $C$, it will increafe the rotation. All this will be eafily conceived by reflecting on its effect on the body at reft.
6. A whirling body which has no progreffive motion cannot sive been brought into this ftate by the action of a fingle force. It may have been put into this condition by the fimultaneous operation of two equal and oppofite forces. The equality and oppofition of the forces is neceffary for fopping all progreffive motion. If one of them has acted at the centre, the rotaiory motion bas been the effect of the other only. If they have acted on oppofite fides, they confpired with each other in producing the rotation; but have oppoled each other if they acted on oppofite fides.

In like manner, it is plain that a motion of rotation, together with a progreffive motion of the centre in the direction of the axis, could not have been produced by the action of a fingle force.
103 7. When the fpace S which a body defcribes during one rotation has been obferved, we can difcover the point of impulfe by which a fingle force may have acted in producing both the motions of progreffion and rotation : for $C G=\frac{S}{\pi}$, and $G P=\frac{\int G A^{*}}{m \cdot C G}$, $=$ $\frac{\pi \int \mathrm{GA}^{3}}{m \cdot \mathrm{~S}}$.
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Application of this doctrine to the heavecly? motions.

In this manner we can tell the diftances from the centre at which the fun and planets may have received the fingle impulfes which gave them both their motions of revolution in their orbits and rotation round their axes.

It was found (art. 40.f) that the diftance OG of the centre of ofcillation or percuffion of a fphere fwinging round the fixed point $C$ from its centre $G$, is $\frac{3}{3}$ of the third proportional to CG , and the radius of the fphere, or that $\mathrm{OG}=\frac{2}{3} \frac{\mathrm{RG}^{2}}{\mathrm{CG}}$. Suppofing the planets to be homogeneous and fpherical, and calling the radius of the planet $r$, and the radius of its orbit $R$, the time of a rotation round its axis $t$, and the time of a revolution in its orbit $T$, and making $1: \pi$ the ratio of radius to the pcriphery of a circle, we fiall bave $* \mathrm{R}$ for the circuraference of the orbit, and $* \mathrm{R} \frac{t}{\mathrm{~T}}$ for
the arch of this circumference defcribed during one ros Rotation tation round the axis. This is S in the above-mentioned formula. Then, diminifhing this in the ratio of the circumference to radius, we obtain $\mathrm{CG}=\mathrm{R} \frac{t}{\mathrm{~T}^{2}}$ and $\mathrm{OG}=\frac{2}{5} \frac{r^{2}}{\mathrm{CG}},=\frac{3}{5} \frac{\mathrm{~T} r^{2}}{t \mathrm{R}}$. This is equivalent to $\frac{\pi \int \mathrm{GA}^{3}}{m_{.} \mathrm{S}}$, and eafier obtained.

This gives us Gv


We have not data for determining this for the furb But the very circumftance of his having a rotation in 27 d .7 h .47 m . makes it very probable that be, with all his attending planets, is alfo moving forward in the celeflial fpaces, perhaps round fome centre of ftill more general and extenfive gravitation : for the perfect oppofition and equality of two forces, neceflary for giving 2 rotation without a progreffive motion, has the odds againft it of infinity to unity. This corroborates the conjectures of philofophers, and the obfervations of Herichel and other aftronomers, who think that the fo. lar fyftem is approaching to that quarter of the heavens in which the conftellation Aquila is fituated.
8. As in the communication of progreffive motion among bodies, the fame quantity of motion is preferved before and after collifion, fo in the communication of rotation among whirling bodies the 'quantity of rotatory momentum is preferved. This appears from the general tenor of our formulae: for if we fuppofe a body turna ing round an axis paffing through its centre, withont any progreffive motion, we muft fuppofe that the force $m v$, which put it in motion, has been oppofed by an equal and oppofite force. Let this be fuppofed to have acted on the centre. Then the whole rotation has been the effect of the other acting at fome diftance GP from the centre. Its momentum is mv.GP. Had it acted alone, it would have produced a rotation coms pounded with a progreffive motion of the certre with the velocity $v$; and the body acquires a momentary fpontaneous axis of converfion at the diftance GC from the centre of gravity. The abfolute velocity AC of any particle is $\frac{\text { v.AC }}{C G}$; its momentum is $\frac{\text { v. AC }}{\mathrm{GC}}$. and the fum of all the momenta is $\frac{\int \pi \cdot A C^{3}}{C G}$, or $\frac{v \int A C^{3}}{C G}$, and this is equal to mv.GP. Bat when the progreflive motion is ftopped, A $b$, which was a conftituent of the abfolute motion of $A$, is annibilated, and nothing remains but the motion Ad of rotation round G. But the triangles $d A \bar{c}$ and $G A C$ were demon-

Rotraion.
firted ( $13^{8} 81$. ) to be fimilar ; and therefore $\mathrm{AC}: \mathrm{A} \dot{d}$ $=\mathrm{CA}: \mathrm{GA}$. Therefore the abflute velocity of the particle, while turning round the quiefcent centre of gravity $G$, is $\frac{v \cdot G A}{G C}$; its mumentum is $\frac{v \cdot G A^{2}}{G C}$; the fum of all the momenta is $\frac{\operatorname{GC}}{\mathrm{GC}}$; and this is fill oqual to $m v$. Obferve, that nuw $G C$ is not the diHance of the centre of converfion from the cen:re of gravity, becaufe there is now no fuch thing as the funs:taneous axis of cosverfion, or rather it coincides with the axis of rotalion. GC is he difta:ce from the centre of a particle whofe velocity of rotation is equal to $v$.

Now let the body be changed, either hy a now diftribution of its parts, or by an addition or abftraction of matter, or by both ; and let the fane force $m v$ act at the fame difince GP from the centre. We isall aill have $\pi v \cdot \mathrm{GP}=\frac{0 / \mathrm{GA}^{2}}{\mathrm{GC}}$; and therefore the funs of the momenta of the particles of the whirling body is fill the fame, viz. equal to the momentun of the force $m z$ aching by the lever GP. If therefore a free body has , feen tuming round its centre of gravity, and has the diftributiun of its parts fuddenly changed (the centre however remaining in the lame place), or bas a quantity of matter fuddenly added or taken away, it will turn with fuch an angular velocity that the fum of the momenta is the fame as before.
Application. We have been fo particular on this fubject, becaufe en the pro- it effects the celebrated problem of the precefion of Blem of the the equinoxes; and Sir Ifaac Newton's folution of it is prectifion of the equisores. erroncous on account of his mitake in this particular. He computes the velocity with which a quantity of matter equal to the excefs of the terneltial fpheroid over the infcrited fphere wouid perform its librations, if detached from the fpherical nucleus. Fie then fuppofes it fuddenly to adhere to the fphere, and to dragg it into the fame libratory motion; and he computes the libration of the whole mafs, upon the fuppofition that the quantity of motion in the libratory fpheroid is the fane with the previous quantity of motion of the librating redundant ring or flell; whereas be fhould have computed it on the fuppofition that it was the quantity of momeata that remained unchanged.

The fame thing obtains in rotations round fixed axes, as appears by the perfect fameneis of the formula for both claffes of motions.

This law, which, in imitation of the Leibnitzians, we might call the confervatio momentorum, makes it of iroportance to have expreflions of the value of the accumulated momenta in fuch cafes as moft frequently occur. The molt frequent is that of a fphere or fphefoid in rotation round an axis or an equatorial diameter; and a knowledge of it is neceflary for the folution of the problem of the precelfion of the equinoxes. See Precession, $\mathrm{n}^{0} 33$.

Fig. is.
Let AP ap (fig. 15.$)$ be a rphere turning round the $^{\text {a }}$ dia.neter $\mathrm{P} p$, and let $\mathrm{DD}^{\prime}$, $d d$ ' be two circles parailel to the equatur $\mathrm{A} a$, very near each other, comprehending between them an elementary flice of the fphere. Let CA be $=a, \mathrm{CB}=x$, and $\mathrm{CD}=y$, ard let $\pi$ be the circumference of a circle whofe radius is 1 . Laftly, let the velocity of the point A be o . Then

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$v \frac{y}{a}$ is the velocity at the difance $y$ from the axis, $s y$
Rotatese.
is the quantity of matter in the circumference whole radius is $y$; for it is the length of that circumference when expanded.
$\frac{v \pi y^{2}}{a}$, or $\frac{v y}{a} \times \pi y$, is the quantity of motion in this circumference turning round the axis $P p$.
$\frac{2 \pi-y^{3}}{a}$ is the momentum of the fame circumfererice. $\frac{0 \pi y^{3} y}{a}$ is the fluxion of the momentum of the circle whofe radius is $y$, turning in its own plane round the axis.
$\frac{2 \pi y^{4}}{4 \cdot a}$ is the fluent, or the somentum of the whole circle; and therefore it is the momentum of the circle $\mathrm{DD}^{\prime}$.
$\frac{v \pi 3^{4} \dot{x}}{4^{a}}$ is the fluvion of the momentum of the lemifphere; for $\mathrm{B} b=\dot{x}$, and this fractivi, is the momentum of the flice $\left.\sigma^{\prime} 1\right) D^{\prime} d^{\prime \prime}$.

$$
y^{3}=a^{2}-a^{2}, \text { and } y^{4}=a^{4}-2 a^{2} x^{2}+x^{4} \text {. Therc- }
$$ fore $\frac{v \pi}{2 a} \times\left(4^{4} \dot{x}-2 a \hat{x}^{3} \dot{x}+x^{4} \dot{x}\right)$ is the duxion of the momenturn of the whole fphere. Of this the fluent for the fegments whofe heights are $C R$, or $x$, is $\frac{\tau \pi}{2 a}$ $\left(a^{4} x-\frac{2 a^{2} x^{3}}{3}+\frac{x^{5}}{5}\right)$.

Let $x$ become $a$, and we have for the momentum of the whole frhere $\frac{v \pi}{2 a}\left(a^{5}-\frac{2}{3} a^{5}+\frac{\pi}{3} a^{5}\right)=v \pi\left(\frac{a^{4}}{2}-\right.$ $\left.\frac{a^{4}}{3}+\frac{a^{4}}{10}\right)=v \pi r_{5}^{4} a^{4}$

Let us fuppofe that this rotation has been 1 roduced by the action of a force mu; that is, a force which would conmunicate the velocity $u$ to the whole matter of the fphere, had it acted in a divection pafing tlirougl? its centre ; and let us fuppofe that this force alled or: the equatorial point A at right angles to AC : Its momentum is $m u a$, and this is equal to $v \pi \pi_{4}^{4} c^{4}$. Alfo, we know that $m=\frac{2}{5} \pi a^{1}$. Therefore we have $u \cdot \frac{3}{5}$ $\pi a^{4}=v_{1}^{4} \pi a^{4}, \frac{2}{3} u=\frac{1}{3}_{5}^{4} v$, and $v=\frac{5}{1} u$.

Let EPQ $P$ be an oblate fpheroid whofe femi-axis PC is $a$, and equatorial radius EC is $b$, and let $v$ be the veloclty on the equator of the infcribed fphere. Then fince the momentum of the whirling circle D D is $\frac{v x y^{4}}{4^{a}}$, the momenta of the fpliere and Spheroid are in the quadruplicate ratio of their equatorial radii ; and therefore that of the whole fplieroid is $4_{5}^{4} \pi b^{4} \mathrm{v}$. And if $w$ be the velocity at E correfponding to the velocity $v$ at A , fo that $w=\frac{b}{a} v$, we have the momentum of the fpheroid, exprefied in terms of the equatorial velocity at the furface, $\frac{1}{3}^{4} l^{\prime}$ a w .

If the fame force $m u$ be made to aft in tine fame Kr : parsuer

Potato on. manner at E, its momentum $m z b$ is $=\frac{4}{25} b^{3} a w$, and $w=\frac{15 m u}{4 \pi b^{2} a}$. Therefore the angular velocities $\frac{v}{a}, \frac{z v}{b}$, which the fame force $m u$ acting at A or E will produce in the fphere and the foheroid, are as $\frac{15 m^{t}}{4 \pi a^{4}}$ and $\frac{15 m u}{4 b^{3} a}$, that is, in the triplicate ratio of the equatorial diameter $b$ to the polar axis $a$.

Laftly, if the oblate spheroid is made to turn round an equatorial diameter paffing through C perpendicular to the plane of the figure, it is plain that every faction parallel to the meridian EPQ $p$ is an ellipfe fimilar to this meridian. If this eliipfe differs very little from the ; foribed circle, as is the cafe of the earth in the problem vi the preceffion of the equinoxes, the momentum of cache ellipfe may be confidered as equal to that of a circle of the fame area, or whole diameter is a mean properfinal between tire equatorial and polar diameters of the Spheroid. This radius is to the radius of the circumscribed circle as $\sqrt{b a}$ ta $b$. Therefore the momenta of the faction of the Spheroid and of the circumscribed Sphere are is the conftant ratio of $b^{2} a^{2}$ to $b^{4}$, or of $a^{2}$ to $l^{2}$. And if the velocity in the equator of this circumfribed Sphere be called $w$, the momentum of the fphere is $\frac{4}{25} \div b^{4} w$; and therefore that of the fpheroid is $T^{4} \pi / 4 w$, agreeably to what was aflumed in the article Precession, $\mathrm{n}^{\circ} 33$.

This value of the momentum of a pheroid round an equatorial diameter is only a very cafy approximation; an exact value may be obtained by an infinite faeries. The whole matter of the fpheroid may be confidered as uniformly dittributed on the furface of a fimilar Spheroid Whole diameter is $=\sqrt{\frac{1}{2}}$ of the diameter of the finesid. It will have the fame momentum, becaufe a rimande in one of the ellipes, lining an elementary arch of the circumference for its bale, and the centre of the ellipfe for its vertex. has its centre of gyration diftant from the vertex $\sqrt{\frac{5}{2}}$ the length of the radius of the edible, and the problem is reduced to the finding the fum of all there lines But even when the faeries for this furn involves the 3 d power of the eccentricity, it is not more exact than the above approximation.

A fimilar propofrtion may be obtained for a prolate spheroid vibrating round an equatorial diameter, and applied to the conjectural chape of the moon, for explaining her ofcillations.

The reader mull have observed that the preceding difquifitions refer to thole motions only which refult from the action of eviernal forces and to the fate of incipient motion. All circular motions, fuel as thofe of rotation, ate accompanied by centrifugal forces. A central force is neceffary for retaining every particle in its circular path ; foch forces mut therefore be excited in the body, and can arife only from the forces of cohefiun by which its particles are held together. There forces are mutun!, equal, and oppofite; and as much as a particle $A$ (ing. 5.) is retained by a force in the disection A $a$ of the line which comets it with the fixed axis $\mathrm{D} d$, or is the dire: on AG (fig. 12.), which connects it wits the prorreflive axis; lo mach sous the noon! a of the axis D a be arsed in the oppofte direcfiona 1 , or fe mitt mu? $l^{1}$, whole b be barged in $\therefore$ a i..redion G.1. Ever: part therefore of the axis

D $d$, or of the axis through $G$ in fig. 10 is canted is Notation a variety of directions perpendicular to itself. There forces may or may not balance each other. If this balance obtains with refpect to the fixed axis, its fupports will fuftain no preflure but what arifes from the external force; if not, one fupport will be more preffed than the other; and if both were removed, the axis would change its pofition. The fame mutt be affirmed of the axis through $G$ in fig. 10 . This, having no fupport, must change its pofition.

And thus it may happen, that the axis of rotation paffing through $G$ which has been determined by the preceding difquifitions, is not permanent either in refpect of the body, or in refpect of abfolute face. Thefe two 10 tations are effentially different. The way to conchive both is this. Suppofe a Spherical furface deferbed round the body, having its centre in the centre of gravity ; and fuppofe this furface to revolve and to procred forward along with the body : in fort, let it be conceived as $2 n$ immaterial furface attached to the body. The axis of rotation will pals through this furface in two points which we fall call its poles. Now, we fay that the axis is permanent with refpect to the body when it has always the fame poles in this fpherical furface. Suppole another Spherical furface deferibed round the fame centre, and that this furface alpo accompanies the body in all its progreffive motion, but does not turn with it. The axis is permanent with refpect to abfolute face when it has always the fame poles in this furface : it is evident that theie two facts are not infeparable. A boy's top fins on the fame point and the fame corporeal axis, while, towards the end of its mocion, we obferve it directing this round and round to different quarters of the room. And when we make an egg or a lemon fin with great rapidity on its fide on a level table, we fee it gradually rife up, till it fard quite on end, fining all th. while round an axis pointing to the zenith.

This change in the pofition of the axis is produced by the unbalanced actions ot the centrifugal forces exerted by the particles. Sappofe two equal balls $A$ and B (fig. 16.) connected by an inflexible rod whole middle point is $G$, the centre of gravity of the balls. This fyffem may be made to tum. round the material axis $\mathrm{D} d$, $A$ defcribing the circle $A E F A$, and $B$ defcribing the circle BHKB . The row AB may aldo be conceived as moveable round the po it $G$ by means of a pin at right angles to the axis. iuppofe the balls paffing through the fituations $\Lambda$ and $B$; their centrifugal forces urge them at the fame time in the directions CA and OB , which impulfions confpire to make the connecting rod recede from both ends of the axis $\mathrm{D} d$. And thus the balls, inftead of defcribing parallel circles round this axis, will defcribe parallel fipirals, gradually opening the angles DG A, $d$ Gi 3 more and more, till the balls acquire the portion $\alpha \beta$ at right angles to the axis. They will not flop there, for each came into that pefitio:1 with an oblique motion. They will pals it; and were it rot for the reffitance of the air and the fiction of the joint at $G$, they would go on till the ball $A$ came to deferibe the circle BIIX, and the ball 13 to defribe the circle AEF. I he centrifugal forces will now hare culaufted by oppoftion all the motions which they had required during their 1 flite from the potion $A B$ to the portion $\alpha 6$ : and how they will again defaibe $f_{i}$ i-

## 1 O T

Rotation. rais gradually opening, and then contracting, till the balls arrive at their original pofition $\Lambda \mathrm{B}$, when the procefs will begin argain. Thus they will continue a kind of ofcillatiag rotation.

Thus the asis is continually changing with refpect to the fyltem of balls; but it is fixed in refpect to abfolute fpace, becaufe the axis $\mathrm{D} d$ is fupported. It does not yet appear that it has any tendency to change its pofition, becaufe the centrifagal tendency of the balls is completely gielded to by the joint at $G$. The material axis has indeed fuftained no change; but the real axis, or mathematical line round which the rotation was going on every moment, has been continually thifting its piace. This is not fo obvious, and requires a more ettentive confideration. To fhow accurately the gradual change of pofition of the real axis of rotation would require a long difcuffion. We fhall content ourfelves with exhibiting a cafe where the pofition of the momentary axis is unqueftionably different from $\mathrm{D} d$, which we may fuppole herizontal.
Take the balls in the pofition $\& \beta$. They came into this pofition with a fpiral motion, and therefore each of them was moving obliquely to the tangents $a 0 . \beta \%$ to the circle a $\boldsymbol{\beta} \boldsymbol{\beta}$, fuppofe in the directions $\alpha \boldsymbol{\alpha}, \boldsymbol{\beta} \lambda$. They are therefore moving round the centre $G$ in a plane $\theta_{\alpha}, 3 \lambda$, inclined to the plane $\varphi_{a, 3} y$ of the circle a $\delta, 3$; , The momentary axis of rotation is therefore perpendicular to this oblique plane, and therefore does not coincide with $\mathrm{D} d$.

We cannot enter upon the inveltigation of this evagation of the axis, although the fubject is both curious and important to the fpeculative mathematicians. A knowledge of it is absolutely neceflary to a complete folution of the great problem of the precefiion. But when treating that article, we contented ourfelves with fhowing that the evagation which obtains in this natural phenomenon is fo exceedingly minute, that although maliplied many thoufands of times, it would efcape the niceft obfervations of molern aftronomers; and that it is a thing which does not accumulate beyond a certain limit, much too fmall for obfervation, and then diminifhes again, and is periodical. Euler, D'Alembert, Frifi, and De la Grange, have fhown the momentary poftion of the real variahle axis correfponding to any given time; and Lunden has with great ingenuity and elegance connected thefe momentary pofitions, and given the whole patis of evagation. Mr Segnor was, we believe, the firft who fhowed (in a Dificrtation De Motu Turbinum, Halle, 1755), that in every body there were at leaft three lines patfing through the centr- of gravity at right angles to each other, forming the folid angle of a cube, round which the centrifugal forces were accurately balanced, and therefore a rotation begon round either of the.e three lines would b : continued, and they are permanent axes of rotation. $\Delta$ lbert Euler gave the firft demonftration in 1760 , and fince that time the inveftigation of thefe axes has been estended and improved by the different authors alrearly named. It is an exceedingly difficult fubject ; and we scomment the fynthecical inveftigation by Frifi in his Cyfingograplicic as tine fitteft for intrueting a curious reader o whom the fubject is new. We flall concluale this differtation with a beautiful theorem, the enuncintion of which we owe to P. Frifi, which has amazingly irproved the whole theory, and gives enfy and elegant

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folutions of the moit difficult problems. It is amalogous Rotatim. to the great theorem of the compofition of riotions and forces.

If a body turn round an axis $\mathrm{AG} a$ (fig. 17.) fafoo ${ }^{11, \%}$, fing through its centre of gravity Gs with thec angularth.cic. velocity $a$, while this axis is cartied round anvother axis BG $b$ with the angular velocity $b$, and if GD be taken to GK as $a$ to $b$ (the points $B$ and E being 'a. ken on that fide of the centre shiue they are moviag towards the fame fide of the plane of the figure), and the line DE be drawn, then the whole and cects particle of the body will be in a flate of rotation rownd a third axis $\mathrm{CG} c$, iying in the plane of tic other twe and parallel to DE , and the angalar velocity c rount this axis will be to $a$ and to $b$ as Di is to GD and : GE.

For, let P be any particle of the bolly, and fuppofo a fpherical furface to le defcribed round G palling through P. Draw PR perpendicular tu the plane of the figure. It is evident that PR is the common fection of the circle of rotation IP $i$ round the axis $\mathrm{A} a$, and the circia KPb of rotation round the axis 36 . Le $\mathrm{I} i, \mathrm{~K} .6$ be the diameters of thele circles of rotatio: Fand G twir centres. Dras the radii PI and PO. and the tangents PM and PN. Thefe tangents are in a plane MPS which touches the fohere in P , and eat the plane of itic axis in a line MN, to which a line drawa from the centre $G$ of the ? phere through tire point $R$ is perpendicular. Let $P N^{\prime \prime}$ reprefent the velo city oi rotation of the point P round the axis $P 3$, and $\mathrm{P} f$ its velocity of rotation rome $\mathrm{A} a$. Complete th. parallelogram PN/f. Then $P t$ is the direction and velocity of motion refuling from the compofition of PS and $\mathrm{P} f . \mathrm{P} t$ is in the piane MIPN, becaufe the diaso nal of a parallelogram is in the plane of its fices iN and $P f$.

Let perpendiculars $f \mathrm{~F}, t \mathrm{~T}$, be drawn to the $\mathrm{F}^{\ldots}$.ne of the ases, and the parallelogram PN $t f$ will be ortinographically projected on that plane, its projection bsing a parallelogram RNiF. (F here falls on the centre by accident). Draw the diagonal RT, It is evident that the plane $\mathrm{PR} i \mathrm{~T}$ is perpendicular to the plane of the two axes, becaufe PR is fo. Therefore the compound motion $\mathrm{P} t$ is in the plane of a circle of revolution round fome axis fituated in the plane of the other two. Therefore produce TR, and draw GC cutting it at right angles in H, and let LP/ be the circle, and PH a radius. $P_{t}$ is therefore a tangent, and perpendicular to PH , and will meet RT in fome point $\Omega$ of the line MN. The particle $P$ is in a ftate of rotation round the axis CGc, and its velncity is to the velocities round $A a$ or $\mathrm{B} b$ as $\mathrm{P} t$ to $\mathrm{P} f$ or PN . The triangles $\mathrm{P} R \mathrm{~N}$ and OPN are fimilar. For PN the tangent is perpendicular to the radius $O P$, and $P R$ is perpendicular to $O N$. Therefore $O P: P N=P R: R N,{ }^{\prime}$ and $R N=\frac{P R R P}{O P}$. But the velocity of P round the axis $\mathrm{B} b$ is OP. $\dot{b}$. Therefore $\mathrm{RN}=\frac{\mathrm{PR} \cdot \mathrm{OP} \cdot b}{\mathrm{OP}}=\mathrm{PR} . \mathrm{b}_{\mathrm{F}}$ \{n like menner RF $=\mathrm{PR} . \pi$. Therefore RF: $\mathrm{RN}=a: b=\mathrm{GD}: \mathrm{GE}$. Bat NT:RN $=$ fine NRT : fine NTR, and GD: GE = fine GED : : Fine GDE. Therefore fine NRT : fine NTR $=$ fine GED : : fine GDE. Hut RNT $=$ EGD, for NR is perpendicular to EG and NT (being parallel Rrz

## $\mathrm{R} 0 \mathrm{~T}\left[\begin{array}{lll}1 & 16]\end{array}\right.$

Fortation to IF is perpendicular to DG. Therefore Tl is perpendicular to ED, and $\mathrm{C} c$ is parallel to ED, and the rotation of the paricle $P$ is round an axis parallel to ED. - Lid fince l $\mathrm{N}, \mathrm{RF}$, RT, are as the velocities $b, a$, $c$, roand thele different aves, and are proportional to EG, DG, DE, we have $c$ to $a$ or to $b$ as ED to G1) or GE, and the ptopolition is demonftrated.

Tilìs theorem may be thus's expreffed in general terms.

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Fibrevid at fetheta?


If a bally revolves round an axis palfing through its centre of gravity with the angular velocity $a$, while this axis i: carried round another axis, alfo paffing through its centre of gravity, with the angular velocity $b$, thele two motions compufe a motion of every particle of the body round a third axis, lying in the plane of the other Hoo, and inclined to each of the former axes in angles winofe fines are inverfcly as the angular velocities round them; and the angular relocity round this new axis is to that round one oi the primitive axes as the fine of inclination of the two primitive axes is to the fine of the jrclination of the new axis to the other primitive axis.

When we fay that we owe the enunciation of this theorem to P. Fiff, we grant at the fame time that fomething like it has been fuppofed or affumed by other 2.athors. Newton feems to have confidered it as true, and cren evident, in tomogeneons foheres; and this has icen tacitly acquiefced in by the authors who followed i.in in the protlem of the preceffion. Inferior writers hwe carelefly affumed it as a truth. Thus Nollet, ©iraefande, and oiters, in their contrivances for exhititing experiments for illuftrating the compolition of vorticss, proceeded on this affumption. Even authors of more fcrupulous refearch have fatisfied themfelves with a vcry imperfect proof. Thus Mr Landen, in his exceltent diffe:tation on rotatory motion, Philofophical Ttanfactions, Vol. lvrii. contents himfelf with thowing, that, by the equality and oppofte dive itons of the motions round the axes $\mathrm{A} a$ and $\mathrm{B} b$, the point C will be at reit, and from thence concludes that CG $c$ will be the new axis of rotation. But this is eaceedingly hally (note alfo, that this differtation was many years pefterior to that of P. Frifi) : For although the feparate ractions of the point $C$ may be equal and oppofite, it is by no means either a mathematical or a mechanical confequence that the body will turn round the axis Cc. In order that the point $\dot{C}$ may remain at reft, it is necellary that all tendencics to motion be annikilated: this is not even thought of in making the affurption. Frifi has fown, that in the motion of every particle rcuin the axis $\mathrm{C} c$, there is involved a motion round the two axes $A a$ and $\mathrm{B} b$, with the velocities $a$ and $b$; and it is a confequerse of this, and of this only, that the inupulfes which would feparately produce the rotations of every particle round $\mathrm{A} c$ ard $\mathrm{E} b$ will, ether in fuccefhon or in conjunction, produce a rotation round $\mathrm{C} c$. MÍoseover. Mr Landen's not having attcnded to this, has led lim, as we imagine, into a miltake refprcling the velecite with which the axis changes its pofition; and theugh his procefs exhibits the path of evagation with accuracy, we apprehend that it dues not aftgn the true times of the axes arriving at particular points of this pat?.
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It follows from this propofition, that if every parCunclufions ticle of a body, whether folid or fluid, receives in one deduced inftant a feparate impulie, competent to the production propostan of a motion of the particle round an axis with a cer-
tuin antrutar velocity, and another-impulie cotopetent Ruetriond to the production of a motion round another axis with a. certain velocity, the conluined effect of atl thele imptu? fions will be a motion of the whole fyftem round a tirird axis given in pofition, with an angular velucity which is alfo given: and this motion with o stain whilhut any feparation or dilunion of parts; for we lee that a motion round two axes conflututcs a motion round a third axis in every particle, and no feparation would take place alchough the fyltem were incoherent like a mals of fand, except by the action of the centrifugal forces arifing from rotation. Mr Simpton therefore erred in his folution of the problem of the preccfliur, by fuppofing another force necellary for enabling the particles of the fluid fpheroid to accompany the equator when . difplaced from its former fituation. The very force which makes the difplacement prounces the accomoaniment, as far as it obtains, which we thall fee prefently is not to the extent that Mr Simpfon and other authors who treat this problem have fuppofed.

For the fame realon, if a body be turning reund any axis, and every particle in one initant get an impulfe precifely fuch as is competent to produce a given angular velocity round another axis, the body will turn round a third axis given in pofition, with a given angular velocity: for it is indifferent (as it is in the crdinary compoftion of notion) whether the forces act on a particle at once or in fucceffion. The final motion is the fame borb in refpect of direction and velocity-

Laflly, "hen a rigid body acquires a rotation round an axis by the action of an impulfe on one part of it, and at the fame time, or afterwards, gets an impulfe on any part which, aione, would have produced a certain rotation round another axis, the effect of the combined actions will be a rotation round a third axis, in tenme of this propofition; for uben a rigid body acquires a motion round an axis, not by the limultanoos impulfe of the precifely competent force on each particle, but by an impulfe on one part, there has been propagated to every prosicle (by means of the connceting fotces) an impulfe precilely competent to produce the motion which the particle really acquires; and when a rigid bedy, already turning round an axis Aa (fig. 17.), receives an inpulfe which makes it actually turn round another axis $\mathrm{C} c$, there has been propasated to eachi particte a force precifely competent to produce, not the motion, but the change of motion which takes place in that particle, that is, a force which, when compounded with the inherent force of its primitive motion, prodaces the new motion; that is (by this theorem), a force which alone would have caufed it to turn round a third axis $\mathrm{B} b$, with a rotation making the other conftituent of the actual rotation round $\mathrm{C} c$.

This muft be confidered as one of the moft importent Fropofitions in dynamics, and gives a great extenfion to the coctrine of the compolition of motion. We fee thit rotations are compounded in the fame manner as other mations, and it is extremely eafy to difcover the conspofition. We have only to fuppofe a \{phere defcribed round the centre of the body; and the equator of this fphere correfponding to any primitive pofition of the axis of rotation gives us the direction and velocity of the particles fituated in it. Let another great circle cut this equatar in any point; it will be the equator. of another rotation. Set off an arch of eacb from the

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Rotation: point of inteffection, proportional to the angular velocity of each rotation, and complete the fuherical parallelogram. The great circle, which is the diagonal of this paralielogram, will be the equator of the rotation, which is actually compounded of the other two.
And thes mey any two rotations be compounded. We have given an inflance of this in the folution of the problem of the Phecesslon of the Equinozes. rem tisat the akis $C c$ is a new line in the body. The change of rotation is not accomplifled by a transference of tie poles and equator of the former rotation to a new fituation, in which they are again the poles and equator of the rotation; for we lee that in the rotation round the axis $\mathrm{C} c$, the particle of the body which was formerly the pole A is delcribing a circle round the avis $\mathrm{C} c$. Not knowing this compotition of rotations, Newton, Walmelly, Simpfon, and other celebrated mathematicians, imani eed, that the axis of the earth's rotation remained the lame, but changed its pofition. In this they were confirmed by the conitancy of the oblerved latitedes of places on the furface of the earth. But the asis of the earth's rotation really changes its place, and the poles thift threugh different points of its furface; but thefe different points are too near each other to make the change fenfible to the nice? obfervation.

It would feem to refult from thefe obfervations, that it is impolfile that the axis of rotation can change its pofition in abfolate fpace without changing its polition in the body, contraxy to what we experience in a thou-
fand familiar initances; and indeed this is impolille by any one change. We cannot by the imputie of any one force make a body which is turning round the axis A a change its poition and turn round the fame material axis brought into the pofition $\mathrm{C} c$. In the fame way that a body mult pafs through a feries of intermediate points, in qoing from one cad of a line th the other, fo it muit acquire an infinite feries of intermediate rotations (each of them momentary) before the fame material axis palies into another pofition, fo as to become an axis of rotation. A momentary impulfe may make a great change of the pffition of the avis of sotation, as it may make ia the velocity of a rectilineal motion. Thus although the rotation rourd $A a$ be indefinitely fmall, if another e equally fmail rotation the innrefled round an axis $B b$ pespendicular to $A a$, tha anis will at once thit to $\mathrm{C}_{c}$ half way betwees them; Lat a fucceffion of roiations is neceffayy for carre ing the primitive materidal axis into a new pofilion, where it is augain an axis. This transference, however, is poffinte, but, gradual, and mult be accomplifined by a contizization of impulies totally different from what we would at frit fuppofe. In order that A may pafs from $A$ to $C$, it is not enough that it gets an impulfe in the ciredion AC. Such an impulfe would earry it thither, if the body had not been whirling round $\mathrm{A} a$ by the mere perfeverance of matter in its Aate of motion; But wheri the body is already whirling sound A $a$, the particles in the circle IP $i$ are moving in the circtumference of that circle ; and fince thes circle alio partikes of the motion given to $A$, every particie in it muft be incefantly derlected from the patlo in which it is moving. The contimual agency of a force is therefore neceffiry for this purpofe; and if this force be difcontinged, the point

A will immediately quit the plane of the areh AC , alon" which we are endeavouring to move it, and will flart up.

This is the theorem which we formenly faid would 127 enable us to overcome the difficulties in the inveftigation of the axis of rolation:

Thus we can difcover what Mr Landen calls the The eraevaga ions of the pols of rotation by the action of cen- ations of tritugal forces: For in fig. 16. the known velocity of the poles of the tail $A$ and the railius $A C$ of its circle of rotation the action will give as the centrifugal force by which the balls nf centritu tend to turn in the plane D. $1 d \mathrm{BD}$. This gives the $3^{\text {al furcts, }}$ axis $\mathrm{D} d$ a tendency to muve in : iane perpendicular to the plane of the figure; and its ftparation from the poles D and $d$ does not depend on the feparation of the connecting rod AB from its pritent inclination to $\mathrm{D} d$. but on the angle whicin the fipiral path of the ball makes with the plane of a circle of rotation round $\mathrm{D} d$. The ditance of the new poles fiom D and $d$ is an arch of a circle which meafures the angle made by the fpiral with the circle of rotation round the primitive axis. This will gradually increafe, and the mathematical axis of rotation will be defcribing a fuiral round D and $d$. gradually feparating from thefe points, and again approaching them, and coinciding with them again, at the time that the balls themietres are moft of all removed from their primitive fituation, namely, when $A$ is in the place of B .

The fame theorem alfo enables us to find the inci-and the inpient axis of rotation in the complicated cafes which copient axis are alnofl inacceffible by means of the elementary prin- in compliciples of rotation.

Thus, when the centres of orcillation and percufion 136 do not coincile, as we fuppofet in fig. 5. and 12. Suppofe, firt, that they do coincide, and find the poftion of the axis $a b$, and the angular velocity of the rotation. Then find the ceatre of percultion, the axis $\mathrm{P}_{p}$, and the momentum round it, and the angular velocity which this momentum would produce. Thus we have obtained two rotations round given axes, and with given angular velocilies. Compound thele rutations by this theorem, and we obtain the required pofition of the true incipient axis of rotation, and the angular velocity, withost ike intri-ate precefs which would otherwife have heen neceff rs.

If the hody is of fuci : © Mape, that the forces in the plane DCG do not billance tach other, we thall then d flcover a momentum round an axis perpeadicular to this plane. Compound this rotation in the fame manner with the rotation round $\mathrm{D} d$.

And from this fimple view of the matter we learn poftion of (what would be dificult to difcover in the oller way), the axis that when the centre of percuufion doss not coincide when the with that of rotation, the axis is in the plane DGC, ientres of though not pe:pendicular to PG. But when there is and rotaa momentum round an axis jemendicular to this plane, tion do nots the incipient axis of rotation is neither ferpendicular to coincide. PC , nor in a plane perpendieslar to that paffing through the centre in the direetion of the inipelling force.

We mult entent ourlelyes wish merely pointing out thefe tracks of inve igation to the curious reader, and recommending the cultivation of this molt fruitful theofun of Father Frif.

Thefe are by no means fecculatior.s of mere curiofity, Concluding interefting to nove bot mathematicians; the nobleit art emark on

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Rotation which is praatifed by man mult receive great improveKothor, ment from a complete knowiedge of this fubject. We Rothiav. mean the art of semmansur. A mip, the moft admirable of machines, muk be confidered as a body in $f$ ee ipace, impeliced by the winds and waters, and continually mored round fpontancous axes of converfion, and ince Wantly checked in thefe movements. The trimming of the fails, the action of the radder, the very difpofition of the loading, all affect her verfatility. An experienced feaman knows by habit how to produce and facilitate thefe motions, and to check or llop fuch as are inconvenient. Experience, without any reilection or knowicelre how and why, informs him what poftion of the rudder produces a deviation from the courfe. A fort of common fenfe tellis him, that, in order to make the thip turn her head away from the wind, he mult increale the furface or the obliquity of the head fails, and diminith the power of the fails near the flern. A few other operations are dicfated to him by this kind of commun feale; but few, even of old feamen, can tell why a thip has fuch a tendency to bring her head up in the wind, and why it is fo neceflary to crord the fore part of the thip with fails; fewer itill know that a certain fhifting of the loading will facilitate fome motions in different cafes; that the crew of a great thip ruaning fuddenly to a particular place fhall enable the thip to accomplifh a movement in a formy fea which could not be done otherwife; and perhaps not one in ten thoufand can tell why this procedure will be fuccefsful. Bat the mathematical inquirer will fee all this; and it would be a moft valuable acquifition to the public, to have a manual of fuch propofitions, deduced from a careful and judicious confideration of the circumftances, and freed from that great complication and intricacy which only the learned can unravel, and expreffed in a familiar manner, clothed with fuch reafoning as will be intelligible to the unlearned; and though not accurate, yet perfuafive. Mr Bouguer, in his Traití du Navire, and in his Mancusre des Vaifeaux, has delivered a great deal of ufeful information on this fubject; and Mr Bezout has made a very ufeful abftract of thele woiks in his Cours de Mathernatigue. But the fubject is left by them in a form far too abftrufe to be of any general ufe: and it is unfortunately fo combined with or founded on a falfe theory of the action and refiftance of fluids, that many of the propofitions are totally inconfiltent with experience, and many maxims of feamanfhip are falfe. This has occafioned thefe doctrines to be neglected altogether. Few of our profefional feamen have the preparatory knowledge neceflary for improving the feience; but it would be a work of immenfe utility, and would acquire great reputation to the perfon who fuccelfully profecutes it.

We thall mention under the article Skamanship the chiff problems, and point out the mechanical principles by which they rayy be folved.
ROTHERAM, a town in the weft riding of Yorkhire, feated on the river Don, near which there is a handfome ftone-bridge. It is a well-built place, and the market is large for provifions. W. Long. 1 . 10. N. Lat. 53.25.

ROTHSAY, a town in the ifle and county of Bute, in Scotland. It is the capital of the county, is a wellbuilt town of frall houfes, and is wihin thefe few years much improved. It has a gocd pier, and is fealed at
the bottom of a fine bay, whofe mouth lies exacly oppofite to Loch Steven in Cowal. Here is a fine depth of water, a fecure retreat, and a ready navigation down the fridh for an export trade. Magazines of goods for foreign parts might be moft advantageoufly erected here. The finining of yara bas been long carried on in Rothfay, and lately the cotton manufacture has been introduced. The herring filhery has been alfo long a great fource of trade in this place. W. Long. 5.O. N. Lat. 55.50.

Rothfay gives the title of duhe to the prince of Scotland, a title which was formerly accompanied wilh fuitable revenues, potwers, and privileges. Of the origin of this tite thc folloning account is given. Some time between the 16 th of March and the 26th of October ${ }^{1398}$, Juhn of Gaunt, who is Ayled John duke of Aquit.ine and Lancafter, uncle to the king of England, and David, who is fyled earl of Carrick, eideit lon of the king of Scotland, met for the purfofe of fettling the borders, and terminating all matters in difpute. it a fubiequent interview between the fame parties, David is ftyled Duke of Rothfay. "This innovation, it is faid, probably procceded on an idea, to which the interview of the two princes might naturally give rile, that it was unfuitable, and unworthy of the Scottilh national dignity, that the princes of England fhould enjoy a title of nooility, which was efteemed to be of higher rank than that poffefled by the hereditary prince of Scotiand." In this way it is fuppofed the title of Duke was introduced into Scotland.

ROTTBOELLIA, a genus of plants belonging to the triandria clafs. Sce Botany Index.
ROTONDO, or Rotuxdo, in Architecture, an appellation given to any building that is round both within and without; whether it be a church, a faloon, or the like. The moft celebrated rotundo of the ancients is the pantheon at Rome. See Pantheon.

ROITEN-stoxe, a mineral found in Derbyhure, and ufed by mechanics for all forts of finer grinding and polithing, and fometimes for cutting of fones. According to Ferber, it is a tripoli mixed with calcarcous earth.

## rottenness. See Putrefaction.

ROTTERDAMI, is a city in the province of Holland, in E. Long. 4. 20. N. Lat. 52. fituated on the north bank of the river Maefe, about 37 miles fouth of Amfterdam, nine fouth-eaft of the Hague, and .15 to the eaftward of Briel. It is a large and populous city, of a triangular figure, handfomely built of brick, the ffrcets wide and well paved. There are ten gates to the town, fix of which are at the land fide and four at the fide of the Maefe. It is fuppofed to take its name from the Roter, or Rotter, a little river that falls into the canals of this city, and from Dow, a dike. Ic is uncertain when it was firt built; and though it is fuppofed to be very ancient, yet we find no mention made of it before the $13^{\text {th }}$ century. In the year 1270 it was furrounded with ramparts, and honoured with feveral privileges; but 27 years after it was taken by the Flemings. In the year 1418, Brederode chief 'of the Hacks nade himfelf mafler of it ; funce which time it has continued yearly to increafe by means of the conveniency of its harbour. Its arms are veit, a pale argent. quarterly in a chief on the firf and third, or, a lioa fpotted fable, on the fecond and fourth a lion fpotted gutes.

Pwiterdam is not reekoned one of the priacipal ci-

## $\mathrm{H} 0 \mathrm{~T} \quad[319] \quad \mathrm{RO}$ T

r-terdam. ties of the province, becaufe it has not bieen always in its prefent flourihing condition. The Dutch call it the firft of the fecond rank, whereas it ought to be efteemed the fecond of the firft, bcing, next to Amflerdam, the moft trading town in the United Provinces. Its port is very commodious; for the canals, which run through molt parts of the town, bring the lhips, fome of 200 or 300 tons, up to the merchant's door ; a conveniency for loading and unloading which is not to be found in other places. The great flips go up into the middle of the town by the canal into which the Maele enters by the old head, as it comes out by the new. A ftranger, upon his firft entering this place, is aftonifhed at the beautiful confufion of chimneys intermixed with tops of trees with which the canals are planted, and ftreamers of veffels; infomuch that he can hardly tell whether it be fleet, city, or foref. The Harring Tliet is a very fine ftreet; molt of the houfes are new, and built of herm ftone; but the grandeft as well as mof agreeable ftreet in Rotterdam is the Bomb Quay, which lies parallel with the Maefe; on one fide it is open to the river, and the other is ornamented with a grand façade of the beft houfcs in the city, inhabited chiefly by the Englifh; they are five or fix itories high, mally and very clumfy: wherever there is any attempt at ornament, it is the worn that can be conccived. One fees no Grecian architecture, except Doric entablatures, fluck upon the top of the upper fory, witheut pilafters; Jonic volutes, turned often the wrong way, and an attempt at Corinthian capitals, without any other part of the order. The doors are large, and ftuck with great knobs and clumfy carving; you afcend to them, not in front, but by three or four fleps going up on each fide, and you are affited by iron rails of a moft immenfe thickne.f. Thefe houfes are almoft all window; and the window fhutters and frames being painted green, the glafs has all a green calt, which is helped by the rellection from the trees that overfhadow their houfes, which, were it not for this circumffance, would be intole:ably hot, from their vicinity to the canals. Moft of the houfes bave looking-gla Tes placed on the outhdes of the windows, on both fides, in order that they may fee every thing which paffes up and doan the ftreet. The fiair-cafes are narrore, ftecp, and come down almot to the door. In general, the houfes rife with enormous fleep roofs, turning the gatle ond to the freet, and leaning confiderably forward, fo that the top often projects near two feet beyond the perpendicular. The Bomb Quay is to broad, that there are diftinet walks for carriages and foot-paffengers, 1 :ned and fhaded wilh a double row of trecs. - You look over the river on forne beautiful meadows, and a fine avenue of trees, which leads to the Yeft-hou'fe: it feems (1) be an elegant building, and the trees round it are fo dirs Ced as to apuear a thick woor. This ftreet is at leaft half a mile in length, and extends from the old to the new head, the two places where the water enters to fill the canali of this extcnfive city. When water runs t'ronesh a firect. it tien a armes the name of a canal, of w'ich kind thr fieseren fiect has thie pre-eminence; the ho fes are of free-ft ne, and very lofly; the canal is f:acious, and covered will fhips at one end ftands the fonvlifh church, a neat pretty buiding, of which the !ifh in of İméo is ordinary.

Thi p. is indel more fr-quentel by the Britif
merchants than Amfterdam, infomuch that, after a froff, Rotterdam. when the fea is open, fometimes 300 fail of Britifi veffels fail out of the harbour at once. There is always a large number of Britifh fubjects who refide in this town, and live much in the fame manner as in Great Britain. The reaton of the great traffic between this place and England, is becaufe the flips can gencrally load and unload, and return to England from Rotterdam, bclore a fhip can get clear from Amflerdam and the Texel. Hence the Englifh merchants find it cheaper and more commodious, after their goods are arrived at Rotterdam, to fend them in boats over the canals to Amfterdam. Another great advantage they have here for commerce is, that the Maefe is open, and the paffage free from ice, much fooner in the foring than in the Y and Zuyder-fea, which lead to Amfterdam.

The glafs-houfc here is one of the beft in the feven provinces; it makes abundance of glafs-toys and enamelled bowls, which are fent to India, and exchanged for china-ware, and other oriental commodities.

The college of admiralty here is called the college of the Macfe, the chief of all Holland and the United Provinces. The leutenant-general, admiral of Holland, is obliged to go on board of a Rotterdam thip in the Maefe when he goes to fea, and then he commands the fquadron of the Maefe.

Oa the eaft fide of the city there is a large bafon and dock, where flip-carpenters are continusliy employed for the ufe of the admiralty, or of the Eaft India company. But the largeft flips belonging to the admiralty of hotterdam are kept at Helvoetfluys, as the moft commodious flation, that place being fituated on the ocean; for it requires both time and trouble to work a large Dhip from the dock of Fotterdam to the fea.

Rotterdam has four Datch churches for the eflablifhed religion. There is one thing very remarkable in refpect to the great clurch, that the tower whic!a leaned on one fide was fet up ftraight in the year 1655 , as anpears by the infeription engrared on brafs at the bottom of the tower withinfide. In the choir of this charch arc celebrated, with no fmall folemnity, the promotions made in the Latin fchools. Befides, there are two Englith churches, one for thofe of the church of Eng and and the other for the Prefoyterians; and one Scutch church; as likecriic one Lutheran, two Arminian, two An baptift, four Foman Catholic chajels, and one Jowilh fynagogue.
Though the public buildings here are not fo fately as thofe of Amplerdam and fome other cities, yet thcle are feveral of them well worth feeing. The great church of St Lautence is a good old building, where are many fetcely monunents of their old admirals. From the top of this church one may fee the Hague, Duff, Jeyden, D rt, and moft of the torwns of Souch Holliand. The e are feveral fine market-places, as three fith marl:ats, the great-market, the new-market, and the hogs maiket. The fladthoufe is an old building, but the chambers large and finely adorned. The magazines for fitting out their fhizs are very ghool ftrusturcs. The exchance is a noble tuilding, begun in the year $1-20$, and fanihed in 1736 Upan the great hridge in the market-phace there is a fire brafs flatue caeclid to the crent Erafmus, who was liorn in tlis ci y is 1457, and died at Luafi in Swizerland. He is !

## 

Reterdam fented in a furred gown, and a round cap, with a book II
$\underbrace{\text { Kuvcre. }}$ in his hard. The fiatue is on a pedeftal of marble, Gurrounded with rails of izon. Juft by, one may fee
the houfe where this great man was born, which is a very fanall one, and has the following diftich writen on the door:

Zi:dithes his ortus, mundum decoravit, Erofinus, Arribus, ingenio, relgione, fu'l.
Fisterdam and the whole of the United Proxinces are now in the poffeffion of the French, and form nominally a feorate kingdom.

ROTULA, in Anatomy, the fizall bone of the knee, called allo prtelha, See Anatomy.

ROTUNDUS, in Aratomy, a name given to feveral mafeles otherwife called teres.

RoUad. See Aradus.
ROUANE, or ROANE, an ancient and confiderable town in Fran*e, in Lower Forez, with the title of a duchy; feased on the river Loire, at the place where it begins to be navizable for boats. E. Long.4.9. N. Lat. 45. 2.

ROUCOU, in Dyeing, the fame with Avorta and Bixa. See Dyeing.

ROUEN, a city of France, and capital of Normandy, had ais archbifhop's fee, a parliament, a mint, a hand fome college, an acadeny, two aobeys, and an old caft'e. It is feven miles in circumference, and furrounded with fix fuburbs; and contained before the revolution 3.5 parithes, and $2+$ eonvents for men and women. The meiropolitan church has a very handfome front, on which are two lofy fleeples, whence there is a fine view of the town and country. The. great bell is 13 feet high and 11 in diameter. Tise church of the Benedictine abbey is mach admired by travellers. The parliament-houfe is adorned with beautiful tapeftry and fine pictures. There is a great number of fountains, though the boufes are ordinary; but the walk upon the quay is very pleafant, and there are 13 gates from thence into the city. The number of the inhabitants is about 62,020 , and they have feveral woolIen manufactures. It is feated on the river Seine; and the tide rifes fo high, that veffels of 200 tons may come up to the quag: but one of the greateft curiofities is the bridge, of 270 paces in length, fepported by boats, and confequently is higher or lower according to the tide. It is paved, and there are ways for footpaffengers on each fide, with benches to fit upon; and coaches may pafs over it at any hour of the day or wight. It is often called Roan by Englifh hiftorians; and is 50 miles fouth-weft of Amiens, and 70 north-weft of Paris.

Though large, and enriched by commerce, Rouen is not an elegant place. The freets are almoft all narrow, crooked, and dirty; the buildings old and irregular. It was fortifed by St Louis in 1253, but the walls are now dersolified. The eavirons, more particularly the hills which overiouk the Seine, ace wonderfully agreeable, and cove ed with maguificent villas. E. Long. 1. 10. N L. 1225.

ROVLAF , or Rovmeno, a firong town of the Tyroi an the ceनिnes cf the republic of Venice; fented or the raser A :ige, at the foopt of a mountain, and Gn the Gide of a iseerr, over which there is a bridge, de-

fouth of Tient. The town is tolerably well built; and governed by a chisef magiftrate, ftyled a podiffat. There are feveral churches and convents, that contain nothing worthy of notice. The moft remarkable thing, and what they call the great wonder of Roveredo, is its fpinning houfe for a manufa \&ure of Gilk, in which they have a great trade here to the fairs of Bolzano. They have alfo a very good trade in wine. Between Trent and Roveredo is the frong fort of Belem, belonging to the houfe of Auftria. It is fituated on a rock, and commands the roads at the foot of the meuntain. E. Lung. 11. 1. N. Lat, 46. 12.

ROUERGUE, a province of France, in the government of Guieane; bounded on the calt by the Cevennes and Geraudan, on the weft by Querci, on the north by the fame and Auvergne, and on the fouth by Languedoc. It is 75 miles in length, and 50 in breadin; not very fertile, but feeds a number of catule, and has mines of copper, iron, alam, vitriul, and fulphur. 'It is divided into a county, and the upper and lower marche. It now forms the department of Avsirol., Rhodez is the capital town.

ROVIGNO, a populous town of Itaiy, in Itria, with two good harbours, and quarries of fine flone. It is feated in a territory which produces excellent wine, in a peninfula on the wefiern coaft. E. Long. 13. 53 . N. Lat. 45 . 14.

ROVIGO, is a town of Italy, in the terrilory of Venice, and capital of the Polefin di Rovigo, in E. Long. 12. 25 . N. Lat. 45.6. It is a finall place, poorly inhabited, and encompaffed with rumous walls. FormerIy it belonged to the duke of Ferrara, but has been fubjett to the Tenetians fince 1500 , and is famous for being the birth place of that learned man Cocius Rhodoginus. It was built upon the ruins of Adria, anciently a noble harbour one mile from Rovigo, that gave name to the gulf, but now a half-drowned village, inhabited by a fe:r fithermen.
ROUNDELAY, or Roundo, a fort of ancient poem, deliving its name, according to Menage, from its furm, and becaufe it flill turns back again to the fint verfe, and thus goes round. The common roundelay confilts of $: 3$ verfes, cight of which are in one rhyme and five in another. It is divided into couplets; at the end of the fecond and third of which the beginning of the roundelay is repeated ; and that, if poffible, in an equivocal or punning fenfe. The roundelay is a popular poem in France, but is little known among us. Marot and Voiture hase fucceeded the belt in it. Rapin remarks, that if the roundelay be not very exquiáte, it is intolerably bad. Io all the ancient ones, Menage obferves, that the verfe preceding has a lefs complete fenfe, and yet joins agreeably with that of the clofe without depending neceffarily thereon. This rule, well obferved, makes the roundelay more ingenious, and is one of the fineffes of the poem. Some of the ancient writers fpeik of the roundelay or roundel as a kind of air appropriated to dancing; and in this fenfe the term feems to indicate littie more thas dancing in a circle with the hands joined.

ROUND. House, a kind of prifon for the nightly watch in London to fecure diforderly perfons till they can be carried before a magittrate.

Roind-Honfe, in a hhip, the urpermof room or cabin on the flern of a fiop, where the mafter lies.

ROUNDS,

ROUNDS, in military matters, a detachrent from the main-guard, of an officer or'a non commifioned officer and fix men, who go round thic rampart of a garrifon, to liften if any thing be flirring without the place, and to fee that the centineis be diligent upon their duty, athd all in order. In friat garrifons the rounds go every half-hour. The centinels are to challenge at a diftance, and to ref their arms as the round paffes. All guards turn out, challenge, exchange the parole, and reft their àrms, \&ic.
Rounds are ordinary and extraordinary. The ordinary rounds are three; the town-major's round, the grand round, and vifiting-round.

Manncr of gring the Rounds. When the torn-major goes his round, he comes to the main-guard, and demands a ferjeant and four or fix men to efcort him to the next guard; and when it is dark, one of the men is to carry a light.

As foon as the fentry at the guard perceives the round coming, he fhall give notice to the guard, that they may be ready to turn out when ordered; and when the round is advanced within about 20 or 30 paces of the guard, he is to challenge brikly; and when he is anfwered by tbe ferjeant who attends the round, Town-major's round, he is to Cay, Sland round! and reft his arms; after which he is to call out immediately, Serjeant, turn out the guard, town-major's round. Upon the fentry calling, the ferjeant is to turn out the guard immediately, drawing up the men in good orde: with fhouldered arms, the officer placing himfelf at the head of it, with his arms in his hand. He then orders the ferjeant and four or fix men to advance towards the round, and challenge : the ferieant of the round is to anfwer, Town-major's round; upon which the ferjeant of the guard replies, Advance, ferjeant with the parole! at the fame time ordering his men to reft their arms. The ferjeant of the round advances alone, and gives the ferjeant of the guard the parole in his ear, that none elfe may hear it; during which period the ferjeant of the guard holds the fpear of his halbert at the other's breaft. The ferjeant of the sound then returns to his poft, whilit the ferjeant of the geard leaving his men to keep the round from advancing, gives the parole to his officer. This being found right, the officer orders his ferjeant to return to his men ; fays, Advance, town-major's round.' and orders the guard to reft their arms; upon which the ferjeant of the guard orders his men to wheel back from the centre, and form a lane, through which the townmajor is to pafs (the efcort remaining where they were), and go up to the officer and give him the parole, laying his mouth to his ear. The officer bolds the fpear of his efponton at the town-major's breaft while he gives him the parole.

The defign of rounds is not only to vifit the guards, and keep the centinels alert; but likewife to difcover what paffes in the outworks, and beyond them.

ROUSSILLON, a province of France, in the Pyrenees, bounded on the eaft by the Mediterranean fea, on the weft by Cerdagne, on the north by Lower Languedoc, and on the fouth by Catalonia, from which it is feparated by the Pyrences. It is a fertile country, about 50 miles in length, and 25 in breadth, and remarkable for its great number of oüve tices. Per :igr an is the capital torm.

ROUSSEAU, JAMIS, as eminent painter, wis born at Paris in the year 1630 , and ftudied firft under Swanevelt, who had married one of his relations; after which he improved himfelf by travelling into Italy, practifing folely in perppective, architecture, and landfape. O: his return home, he was employed at Marly. He diftinguifhed himielf very much in painting building5, and by his knowledge of, and attention to the principles of perfpective. Louis X1V. employed him to decorate his hall of devices at St Germaine-en-Laie, where he reprefented the operas of Lulli. But being a P:otefant, he quitted France on the perfecution of his brethren, and retired to Swifferland. Louis invited him back; he refufed, but fent his defigns, and recommended a proper perfon to execute them. After a flort flay in Swifferland, he went to Holland; whence he was invited to England by Ralph duke of Muntague, to adorn his new houfe in Bloumfiary, where he painted much. Some of his pictures, both in landfcape and architecture, are over doors at Hamptoncourt; and he etched fome of his own defigns. His perfpectives having been moft commonly applied to decorate courts or gardens, have fuffered much from the weather. Such of them as remain are monuments of an e:ccellent genius. The colours are durable and bright, and the choice of them moft judicious. He died in Soho-fquare, about the year 1693 , aged 63 .

Rousseau, John Bapiff, a celebrated French poet, was born at Paris, in April 1671. His father, who was a fhoemaker in good circumftances, made him ftudy in the beft colleges of Paris, where he diftinguilhed himfelf by tis abilities. He at length applied him. felf entirely to poetry, and foon made himielf known by feveral fhort pieces, that were filled with lively and agreeable images, which made him fought for by perfons of the firf rank, and men of the brightert genius. He was admitted in quality of eliove, or pupil, into the academy of Infcriptions and Belles Lettres, in $170 \mathrm{I}_{3}$ and almoft all the reff of his life attached himfelf to fome great men. He attended Mar:hal Tallard into England, in quality of fecretary, and here contracted a friendhhip with St Eriemond. At his retura to Paris, he was admitted into the politeft company, lived among the courtiers, and feemed perfectly fatisfied with his fituation; when, in 1703 , he was profecuted for being the author of fome couplets, in which the characters of feveral perfons of wit and merit were blackened by the moll atrocious calumnies. This profecution made much noife; and Rouffeau was banifbed in 1712 out of the kingdom, to which he was never more to retum, by a decree of the parliament of Paris, However, he always fleadily denied, and eren on his death-bed, his being the author of thefe couplets. From the date of this fentence he lived in foreign countries, where he found illuftrious protectors. The count de Luc, ambaflador of France, in Swifferland, took him into his family, and ftudied to render his life agreeable. He tock hina with bim to the treaty of Baden in 1754, where he was one of the plenipotentiarics, and prefented him to Prince Eugene, who entertaining a particular efteen for him, took him to Vienna, and in. troduced him to the emperor's court. Rouffcau lived about three gears with Prince Eugene; hut having lof his fivour by fatirifing one of his miftreftes, he retired in


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Rol:feau. Re met with much attention and much gererofiry, as we finall foom mention.-It was there that his difputes with Voltaire commenced, with whom he bid beconse acquainted at the college of Louis the Geat, who then much admired his turn for poetry. At that time I oltaire affldoufly caltivated the acquaintance of Roufieau; and nade him a-prefent of all his works; and Rouffeau, fatitered by his refpect, announced him as a man whe would one day be a glory to tie age. The author of the Henriade continued to confult him about his productions, and to lavifl on him the highef encomiums, while their friendinip daily increafed. When they again met at Brufficls, however, they harhoured the blackeft malice, againft one another. The caufe of this enmity, as Roufieau and his frien.ds te! the flory, was a lecture which he had compofed from his Epifle to Julia, now Urania. This piece frightened Voltaire, as it plainly difcovered his rage againh him. The young man, vexed at thefe calumnies, underftood the whole as thrown: out againft him. This is what Rouffeau afferts. But his adverfaries, and the friends of the poet whom he cried down, fufpetted him, perhaps rather raflly, of having employed farcafins, becaule he thought that his own repuation was in danger of being celi, fed by that of his rival. What is very fingular, thefe two celebrated characters cndeavoured each of them to prepoffeis the public with a bad opinion of the other, which they themilves never entertained in reality, and to fmother in their breaft that effecm for each wher which, in defiance of all their exertions, fill beld its place. Rouffean, from the period of this difpute, always reprefented Voltaire as a buffoon, as a writer poffefing reither tafte nor judgcment, who owal all his lucce is to a particular mode which be purfued. As a poet he corifdered him as inferior to Lucan, and livtle fuperior to Pradon. Voltaire treated him flitl worie. Roulleau, according to him, was nothing better than a plagiarit, who could make fhift to rhine, but could not make any reflections; that he had nothing but the talent of arranging words, and that he had even lo! that in foreig: countries. He thus addrefes kim, in a plece litthe known.

> Aufitồ le Dicu qui m'inpire T'arracha le luth et la lijre Q Tu n'es plus quiun reptile immande, Relut du Parnafle et du monde Enféveli dans les venins.

In confequence of the little eftecm in which Foufficau was held at Bruffels, he could never forget Paris. The grand-prior of Vendome, and the baron de Breteuil, folicited the regent duke of Orleans to allow him to return; which favour was obtained. But our poet, before he would make ufe of the lettres de rapel iflued in his favour, demanded a review of his procefs, wlich he wihhed to be repealed, not as a matter of faveur, but by a folemn judgement of court; but his fetition was refufed. He then came over, in 1721 io England, where he printed $A$ C-lleqion of his PVorke, in $Z$ vols 12 mo , at Loudon. This edition, publifhed in 1723 , brought him near 10,000 crowns, the whole of which he placed in the hands of the Oitend company. 'I he affairs of this company, howcver, foon setting into confurion, all thofe who had any money in the:r lands lof the whole
of it, by which unforiunate event Ricuifezus, when as- RuEfinh rived at that age when he flood nooft in need of the - -m-m comforis of fortune, had nothing to depend upon but the generofity of lome friends. Eoulet, public notary in Paris, uas pecutiariy generotis and attentive to bizin. He found a thill greater alyium in the uike d'Aremberg, whofe table was open to him at all times; who being obliged in 1733 to go into the army in Gernany, feitled on him a penfion of 1 goo iivres. But unfurtunately he foon loft his good opinion, having been iruprudent enough to publifh in a journal (of which Voltaine accufed bim), that the duke d'Aremberg was the author of thofe verfes for which he himfelf had beern banilhed France. He was therefore dimifed from his table, and his pride would not allow him to accept of the penfion after this uptute. Bruffels now became inlupportable to him; and the count de Luc, and M. de Senczan, receiver-general of the church reverue, being imformed of his difapponitments, invited h:m to come privately to Paris, in the hopes of procusing a dimination of the period of kis banilhment. Surue time previous to this Roufieau had publined two uets letters ; one to P. Brumoy, on tragedy; the oiher to Rollin, on hiftory. It is laid, he expected from his letter to Brumoy to get the favour of all the Jeluits; and from the one 10 Roliin, the patronage of the Janfenitis. He had likewife witten an Ode, in praife of Cardinal de Fleury, on Peace, which net with a favourable reception, although it was not equal to fume of his former pieces. Hie imagined lis return to Paris would be fourd no difficult matter. Ile attempted it, ant found le curi: ! not obtain a pais for a fingle year. Some fey, that licuilezu had irritated fome perfors in powe:, by an alleguy, called The Judgement of 1 ian ; in which piece he defcribes one of the pincipal judges, whofe ikin Plutu had caufed to be taken off and firetiched out on the feat in the bench. Tinis fatire, joined to the fecret machinations of enemies, rendered all the attempts of his friends to procure his return abortive. After baving ftaid three months at Paris, he retumed to Bruficls in February 1740, at which place he died March 17. 1741, ftrongly imprefled with reiigious lentiments. Inmediately before he reccived the viatictm, be protefted he was not the author of thole horrid verics which had fo much embittered his life; and this deckaration, in the opinien of the virtuous part of mankind, will be confidered as a fufficient proof of his insecence. Some have faid that Roufieau was profone, troubleleme, capricious, forwaid, indigive, enviors, a flattercr, and a fatirift. Others again reprefent him as a man full of candour and opennefs, a faishful and grateful fiend, and as a Chriftian affected rith a fenfe of religionAmidft fuch widely varicd accounts it is difficult to form an opinion of lis character. Such of our readers as wifh to know more of this great poct may conialt the Didionary of M. Chaupepie, written with as much precifion as impar iality, who endeavours to give a juit idea of his eharacier. From what he fays, it does not appear that Rouffeau cin pe cleared from the acculation brought againft him of having altacked his bencfaciors. Wie believe he may be much' morre eaíly freed from the imputarion brought againit him by fome of baving difowned his father: 2 for swbat deceaion had houffenis to conceal the obfcurity of his! bitthe? It exalecd is own nerit. $1 \pi$ of 10 and
M. Scguy,

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Routient. M. Seguy, in coneart with M. the prince of la Tour Tatis, has given a very beautiful elition of his works, agreeable to the poet's laft corrections. It was publthed in 17.43 , at Paris, in 3 vels. $4^{\text {to, and in }} 4$ vols. $12 \mathrm{n}: 0$, coutaining nothing but what was acknowledged by the anthor as his own. It contais:s, 1. Four Mooks of Odes, of which the firth are facred odes, takea tiom the Ptialms. "Ruuffeau (hays Ferion) unites in himelelf Pindar, Horace, Anacreon, and Malherbe. What fire, what genius, what llights of imagination, what rapidity of deleription, that variety of aficcling ftrokes, what a crowd of brilliant comparions, what richnefs of riymes, what happy verlification; but efpecially what inimitable exprefliun! His verles ate finilhed in the hugheft tyle of perfection that French verfe is capable of ..Juming." The lyric compofitions of Rouf. feal are, in general, above mediocri'y. All his odes are not, however, of equal merit. The moll beauliful are thofe which, he has addreffed to count de Luc, to Malberise, to Prince Eugeae, to Vendôme, to the Chriftian princes; his Odes on the death of the prince de Conti, on the battle of Peterwaradin; and the Ode to Fortune, allhough there are certainly fome few weak ftanzas to be met with in it. There is confiderable neathefs in the compofition of the Ode to a Widow, in his Itanzas to the Abbé de Chaulien, in his addrelies to H , fignol, in his Oites to count de Bonneval, to M. Dache, and to count de Sinzindorf; and it is to be lamented that be wrote fo few pieces of this kind, from which his genius fecmed to lead him with difficulty. 2 . Two Books of Eprities, in verfe. Although thele do not want their beauties, yet there prevails too much of a mifanthrouic firrit in them, which takes away greatly from their excellence. He makes too frequent mention of his enemies and his misforiunes; he difplays 'thofe principles which are fupported lefs on the bafis of truth than on thofe various paffions which ruled his mind at the time. He puts forth his anger in paradoxes. If he be reckoned equal to Horace in his odes, he is far inferior in his epiftles. There is much more plitlofophy in the Roman poet than in him. 3. Cantatas. He is the father of this fpecies of poetry, in which he flands umrivalled. His pieces of this fort breathe that poetical expreffion, that piAlureffue fyle, thofe happy turne, and thofe eafy graces, which comfitute the true character of this kind of witing. He is as lively and impetuous as he is mild and affecting, adapting himfelf to the paffions of thofe perfons whom ke makes to fpeak. "I confefs (fays M. de la Harpe) that 1 find the cantatas of Rourfeau more purely lyric than his odes, although he rifes to greater heights in thefe. Ifee nothing in his cantatas but bold and agreeable images. He always addrefles himfelf to the imngination, and he never becomes cither too verbofe or too prolix. On the contrary, in fome of the beft of his odes, we find fome languitaing ftanzas, ideas too long delayed, and verles of inexculiz. ble meannefs." 4. Allegories, the moll of which are happy, but fome of the:n appear forced. 5. E.pigrams, after the manner of Martial and Marot. Me has taken care to leave out of this edition thofe pieces which licentioufnefs and debauchery infpired. They bear, indeed, as well as his other pieces, the marks of yenius; but fuch productions are calculated only to difhonour their aathors, and comupt the heart of thofe who read then. 5. A Book of Pocms on Various Suhjedts,
which fometimes want buth eafe and celicacy. The Romifern. nult diatiaguified are two e-logues, imitated fiom Vī- gil. 6. Pour comedics is verle; the Fiattercr, whale character is well lapported; the Imaginary Forefuthers, a picce which had inzeh lefs luccels, although it ationds fuificiently good fentiment; the C'apricious Man, and the Dupc of Herforf, picces of very inconfiderable meri:. 7. Three comedies in prufe; the Coffec houfe, the Magic Girdle, and the Mindragore, wiacis are litule bettor than his other theatrical pieces. The thicatre was by no means his forte; he had a genius more fuited for fatire than comedy, more akin to Boileau's than MuFiere's. 8. i Collo fivon of Letters, in profe. In this edition he has felected the moft interelling - There is a larger colledion in 5 volumes. This laft has done at the fame time both rejuzy and honour to his memory. Rouffeau in it fpeaks boih in favour of and againt the very fame perfons. He appears too hally in tearing to picces the characters of thole who difleate him. We belood in them a man of a fleady character and an elevated mind, who wifhes to returin to his native country only that he might be enajled completely to jutify his reputation. We fee him again correfponding with perfons of great merit and uncommon integrity, with the Abbé d'Olivet, Racine the fon, the poets La Fuffe and Duche, the celebrated Rollin, M. le Frane de Pumpignan, \&cc. \&c. We mect alfo with fome anecdotes and exact judgements of teveral witers. A book feller in Holland has publihed his port-folio, which does him no honour. There are, indeed, fome pieces in tzis wretched collection which did come from the pen of Rouftean; but he is lefs to be blamed for them than they are who have drawn thefe works from that oblivion to which our great poet had configned them. A pretty good edition of his Select Pices appeared at Patis in $174^{1}$, in a fioall t2mo volume. His portrait, engraved by the ccetbrated Aved, his old friead, made its appoarance in $177 \%$, with the following motto from Martial.:

## Certior in mafro carmine vultus trit.

Rousseav, John-James, was born 'at Gineva, June 29. 1712 . His father was by profeffion a clock and watch maker. At his birth, which, he fays, was thie firn of his misfortanes, the endangered the life of his mother, and he himielf was for a long time after in a very weak and languifling flate of health; but as his bodily ftrength increafes, his mental poweis gradualiy opened, and afforded the happieft prefages of future greatnels. His father, who was a citizen of Geneva, was a well-informed tradefman; and in the place where he wrought he kept a Piutarch and a Tacitus, and thefe authors of courfe foon became famiiar to his fon. A rafi juvenile Atep oscationed his leaving his fathen's houfe. "Finding limelfe a Cugitive, in a frange country, and without money or friel.ds, he cianged (fays he himfelf) his religion, in order to procure a fu'fiftence." Lomex, bihop of Anneci, from whom he fought an afylum, committed the care of his cilucation to Madame de Warrens, an ingenious and amable lady, who had in 1726 le't patt of her wealth, and the Protellant religion, in order to throw berielf into the bofom of the church. This generous lady ferved in the triple capacity of a mother, a friend, and a lover, to the new profelyte, whom fhe regarded as her fon. The neceffity of procuring for himfelf

Roufferu fome fettlement, however, or perhaps his unfentled difpofition, obliged Rouffeau often to leave this tender mother.

- He poffefted more than ordinary talents for mufic ; and the Abbé Blanchard flattered his hopes wish a place in the royal chapel, which he, however, filled in obtaining for him; he was therefore under the neceflity of teaching mufic at Chamberi. He remained in this place till 174 I , in which year he went to Paris, where he was long in very deftitute circumfances. Writing to a friend in 1743, he thus exprefles himfelf: "Every thing is dear bere, but efpecially bread." What an expreffion; and to what may not genius be reduced! Meanwhile he now began to emerge from that obfcurity in which he had hitherto been buried. His friends placed him with M. de Montaigne, ambaffador from France to Venice. According to his own confeffion, a proud milanthropy and a peculiar contempt of the riches and pleafures of this world, conftituted the chief traits in his character, and a mifunderftarding foon took place between him and the ambaflador. The place of depute, under M. Dupin, farmer-general, a man of confiderable parts, gave him fome temporary relief, and enabled him to be of fome benefit to Madame de Warrets his former benefactrels. The year 1750 was the commencement of his literary career. The academy of Dijon had propofed the follorsing queftion: "Whether the revival of the arts and fciences has contributed to the refinement of manners ?" Rouffeau at firft inclined to fupport the affirmative. "This is the pons afinorum (fays a philolopher, at that time a friend of his), take the negative fide of the queftion, and I'll promife you the greateff fuccefs."

His difcourfe againft the feiences, accordingly, having been found to be the beft written, and replete with the deepeft reafoning, was publicly crowned with the approbation of that learned body. Never was a paradox fupported with more cloquence : it was not horvever a new one; but be enriched it with all the advantages which either knowledge or genius could confer on it. Immediately after its appearance, he met with feveral opponents of his tenets, which he defended; and from one difpute to another, he found bimelf involved in a formidable train of correfpondence, without having ever almof dreamed of fuch oppofition. Frem that period he decreafed in happinefs as he increafed in celebrity. His "Difcourfe on the Caufes of Inequality among Mankind, and on the Origin of Social Compacts," a work full of almoft unintelligible maxims and wild ideas, was written with a view to prove that mankind are equal ; that they were born to live apart from each other; and that they have perverted the order of nature in forming focietics. He beftows the higheit praife on the itate of nature, and deprecates the idea of every fucial compact. This difcourle, and efpecially the dedication of it to the republic of Geneva, are the chef-d'cuavres of that kind of eloquence of which the ancients alone had given us any idea. By prefenting this performance to the magiftrates, he was received again into his mative coutitry, and reinftated in all the privileges and rights of a citizen, after having with much difficulty provailed on himfelf to abjure the Catholic religion. IIe foon, however, returned to France, and lived for fome time in Paris. He afterwards gave bimfelf up to retirement, to eicape the flafts of critici'm,
and follow after the regimen which the ftrangury, with Rouffeauw which he was tormented, demanded of him. This is an important epoch in the history of his life, as it is owing to this circumftance, perhaps, that we have the moft elegant works that have come from his pen. His "Letter to M. d'Alembert" on the defign of erecting a theatre at Geneva, written in his retiremeut, and publithed in ${ }^{1757}$, contains, along with fome paradoxes, fome very important and well handled truths. This letier firft drew down upon him the envy of Voltaire, and was the caufe of thofe indignities with which that author never ceafed to load him. What is fingular in him, is, that although fo great an enemy to theatrical reprefentations himfclf, he caufed a comedy to be printed, and in $175^{2}$ gave to the theatre a paftoral (The Village Conjuror), of which he compofed both the poetry and mufic, both of them abounding with fentiment and elegance, and full of innocent and rural fimplicity. What renders the Village Conjuror highly delightful to perfons of tafte, is that perfect harmony of words and mufice which everywhere pervades it; that proper connection among the parties who compofe it; and its being perfectly correct from beginning to end. The mufician hath fpoken, hath thought, and felt like a poet. Every thing in it is agreeable, interefting, and far fuperior to thofe common affected and infipid productions of our modern petit-dramas. His Dictionary of Mufic affords feveral excellent articles; fome of them, however, are very inaccurate. "This swork (fays M. la Borde), in his Eflay on Mufic, has need to be writen over again, to fave much trouble to thofe who wifh to ftudy it, and prevent them from falling into errors, which it is difficult to avoid, from the engaging manner in which Rouffeau drags along his readers." The paffages in it which have any reference to literature may be eafily diftinguifhed, as they are treated with the agreeablenefs of a man of wit and the exactnefs of a man of tafte. Rouffeau, foon *fter the rapid fuccefs of his Village Conjuror, publifhed a Letter on French Mufic, or rather againf French Mufic, written with as much freedom as livelinefs. The exafperated partifans of French comedy treated him with as much fury as if he had confpired againft the ftate. A crowd of infignificant enthufiafls fpent their ftrength in outcries againft him. He was infulted, menaced, and lampooncd. Harmonic fanaticifm went even to hang him up in effigy.

That interefting and tender ftyle, which is fo confipicuous throughout the Village Conjuror, animates feveral letters in the New Heloifa, in fix parts, publifhed $176 I$, in 12 mo . This epifolary romance, of which the plot is ill-managed, and the arrangement bad, like all other works of genius, has its beauties as well as its faults. More truth in his characters and more precifion in his details were to have been wifhed. The characters, as well as their ftyle, have too much famenefs, and their language is too affected and exaggerated. Some of the letters are indeed admirable, from the force and warmth of expreffion, from an effervefcence of fentiments, from the irregularity of ideas which always characterife a paffion carried to its height. But why is fo affecting a letter fo often accompanied with an unimportant digreffion, an inflpid criticifm, or a felf-contradict ing paradox? Why, after baving thone in all the energy of fentiment, does he on a fudden turn unaffecting? It is becaife none of the perfonages are truly interefling:

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istercourfe between mankind be odions to me, intimate Rouffenu. friendihip appears to me very dear; becaufe there are no mere ceremonies due to it ; it agrees with the heart, and all is accomplilicd. Hear, again, why I have always flumned kindnefles fo much ; becaufe svery att of kindnels requires a grateful mind, and I find my heart ungrateful, from this alone, that gratitude is a duty. Lafly, that kind of felicity which is neceflary for me, is not fo much to do that which I wiffi, as not to do what I wih not to do." Rouffeau eojoyed this felicity which he fo much wilhed in his retirement. Without entirely adopting that too rigorous mode of life purfued by the ancient Cynics, he deprived himfelf of every thing that could in any meafure add fuel to this wifhed-for luxury, which is ever the companion of riches, and which inverts even cuftom itfelf. He might have been happy in this retreat, if he could have forgot this public whicle he affected to defpife; but his defire after a great name got the better of his felf-love, and it was this thirf after reputation which made him introduce fo many dangerous paragraphs in his Emilia.

The French parliament condemned this book in 1762 , and entered into a criminal profecution againit the author, which forced him to make a precipitate retreat. He directed his fteps towards his native country, which thut its gates upon him. Profcribed in the place where he firf drew breath, he fought an afylum in Switzerland, and found one in the principality of Neufchatel. His firft care was to defend his Emilia againft the mandate of the archbihop of Paris, by whom it had been anathematifed. In 1763 he publifhed a letter, in which he re-exhibits all his errors, fet off with the moft animated difplay of eloquence, and in the moit infidious manner. In this letter he defcribes himfeif as "more vchement than celebrated in his refearches, but fincere on the whole, even againft himfelf; fimple and good, but fenfible and weak; often doing evil, and always loving good; united by friendhip, never by circuniflances, and keeping more to his opinions than to his interefts; requiring nothing of men, and not wihing to be under any obligation to them; yielding no more to their prejudices than to their will, and preferving his own as free as his reafon; difputing about religion without licentioufness; loving neither impiety nor fanaticifm, bst diliking precife people more than bold fpirits," \&c. From this fpecimen, the limitations he would appoint to this portrait may eafily be difcovered.

The letters of La Montaigne appeared foon after ; but this work, far lefs cloquent, and full of envious difcuffions on the magillrates and clergy of Genera, irritated the Proteftant minifters without effecting a reconciliation with the clergy of the Romifh church. Rouffeau had folemnly abjured the latter religion in 1753, and, what is fomewhat Atrange, had then refolved to live in France, a Catholic country. Thie Proteltant clergy were not fully reconciled by this change ; and the pror teetion of the king of Prufia, to whom the principality of Neufchatel belonged, was not fufficient to refcpe him from that obloquy which the minizer of MoutiersTravers, the village to which he had retired, had excited again:lt him. He preached againf Rouffeau, and his fermons produced an uproar among the people. (1) the night between the 6th and 7 th September 1763 , fome fanatics, drove on by wine and the declamations of their minifter, thretw fome floncs at the windows ci

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RcuT:an. the Genevan philofopher, who fearing nere infints, in rain lought an atylum in the canton of Berne. As this canton was connected with the republic of Genera, they did not think proper to allow him to temain in their city, being profcribed by that republic. Ne ther his broken flate of health, nor the approach of winter, could foften the hearts of thofe obdurate Spartans. In vain, to prevent them from the fear they had of the fpreading of his opinions, did he befeech them to fhut him up in prifon till the frring; for even this favour was denied him. Obliged to fet out on a journey, in the beginning of a very inclement feafon, he reached Strabourg in a very defitute fituation. He received from Marihal de Contades, who then commanded in that place, every accommodation which could be expected from generofity, humanity, and compalfion. He waited there till the weather was railder, when he went to Paris, where Mr Hume then was, who determined on taking him with him to England. After having made fome itay in Paris, Rouffeau actually fet out for London in 1766. Hume, much affected with his fituation and his misfortunes, procured for him a very agresable fettlement in the country. Our Genevan philofopher was not, however, long fatistied with this new place. He did not make fuch an impreflion on the minds of the Englifh as he had done on the French. His free difpofition, his obdurate and melancholy temper, was deemed no fingularity in England. He was there loaked upon as an ordinary man, and the periodical prints were filled with fatires againft him. In particular, they publifhed a forged letier from the king of Pruffia, holding up to ridicule the principles and condut of this new Diogenes. Rouffeau imagined there was a plot between Hune and fome philofophers in France to deffroy his glory and repofe. He ferit a letter to him, filled with the moft abufive exprefions, and reproaching him for his conduct towards him. From this time he looked upon H.me as a wieked and perfidious perfon, who had brought him to England with no other view than to cxpore him to public ridicule; which foolith and chimeric:ll idea was nourithed by felf love and a refliefs difpofition. He imagined that the Englifh philofopher, amidit all. b:s kindneffes, had fomething difagreeable in the monner of exprefling them. The bad health of Rouf. flau, a ferong and melancholy imagination, a too nice fenfilility, a jealous diffofition, joined with philofophic vanity, cherifhed hy the falfe informations of his goverreff. who poffeffed an uncommon power orer him: all theie taken together, might tend to prepufters him with unfavourable fentiments of fome innocent freedoms his tenefactor might have taken with him, and might render him ungrateful, which he thought himfelf inconable of becoming. Meanwhile, thefe falle conjectures and i robabilities oucht never to liave had the weight with an honeit mind to withdraw itfelf from its friend and Lenefictor. Pronfs are always neceffry in cafes of this kind; and that which Rouffeau had was hy no means a cer'ain demonftration. The Genevan ohilofopher, however certainlv returned to France. In polfing through Amiens, he met with M. Giefiet, who interrogated him alout his misfortunes and the controverfies he had been encaroed in. He onlv anfwered, "You have got the ar. of making a part te fpe.k: hut you are not vet pof. funct of the fecret of makines a hear fpeak." In the macan time, the magiffrates of this city wifhed to enfer
on him fome mark of their efecm, which he abtolutely Roiffeanrefufed. His difordered nnmonation vewed there thattering civilities as nothing ehte than finfults, fuch as were lavifled on Sancto in the ithand of Lare:aria. He thought one part of the people luoked upon him as like Lazazille of 'i ormes, who, being fived to the bottorn of a tub, with only his head out of the water, was carried from one towa to another to amufe the vulgar. But thefe wrong and whimfical ideas did not prevent him from afpiring after a refilence in Paris, where, without doubt, he was more looked on as a fpectacle than in any other place whatever. On the 1R? July 177 , Roufieau appeared, for the firlt time, at the regency coffee-bouie, drefled in ordinary clothing, having for fome time previous to this wore an Armenian habit. He was loaded with praifes by the furrounding multutude. " It is fomewhat fugular (fays M. Sennebier) to fee a man fo haughty as he returning to the very place from whence he had been banifhed fo often. Nor is it one of the fmalleft inconfiftencies of this extraordinary character, that he preferred a retreat in that place of which he had fpoken fo much ill." It is as fingular that a perfon under fentence of imprifonment thould wih to live in fo public a manner in the very place where bis fentence was in force againft bim. His friends procured for him, however, liberty of itaying, on condition that he fhould neither write on religion nor politics : he kept his word; for he wrote none at all. He was contented with living in a calm philofophical manner, giving himfelf to the fociety of a few tried friends, fhunning the company of the great, appearing to have given up all his whimfies, and affecting neither the character of a philofopher nor a let efprit. He died of an apoplexy at Ermenonville, belonging to the marquis de Girardm, about ten leagues from Paris, July 2. 1778 , aged 66 years. This nobleman has erected to his mennory a very plain monument, in a grove of poplars, which conftitutes part of his beautiful gardens. On the tomb are infcrived the following epitaphs:

$$
\begin{gathered}
\text { Li repole } \\
\text { L'Homme de / Natare } \\
\text { Et de la Vorili!' } \\
\text { Vitam impondere Vero *. } \\
\text { Hic jacent Offa J. J. Rovifiau. }
\end{gathered}
$$

The curious who go to fee this tomb likewife fee the cloak which the Genevan pbilofopher wore. Above the door is infcribed the following fentence, which might afford matter for a whoie book: "He is truly free, who, to accomplifi his pleafure, has no need of the a/Jifance of a ficond perfon." Roufieau, during his ftey in the environs of Lyuris, married Mademoifelle le Vaffeur, his governefs, a woman who, without either beauty or talents, lad gained over him a great afcendancy. She waited on him in health and in ficknefs: But as if fie had been jealous of poffefling him alone; fle drove from his mind, by the moft perfidious infinuations, all thofe who came to entertain him ; and when Rouffeau did not difmifs them, fhe prevented their return by invariahly refufing them acmittance. By thefo means fhe the more eafily led her hufband into inconfinencies of conduct, which the originality of his character as well as of his opinions fo much contributed to ufat, Nature had perhaps but given him the em-

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Kociena. bryo of his character, and art had probably united to mahe it mose hagular. He did not incline to añociate s:ith any periun ; and as this method of thinking and Jinng was uncommon, it procured him a name, and he dipiayed a hind of tania icalizels in his belaviuur and his writings. Like Dicgetes of oid, he united Gmplit city oi manners wibh all the pride of genius; and a large ituck of ind lience, whih an extrenic ienibility, ferved to ander his charader itil mere uncomnon. "An indulent mi...d (inys he), terrified at every application, a war:u, bilious, aud i:ritable temperausent, 位fible alio in a high degree to every thing that can afe?t it, appear not poffible to be united in the ame perion : a wi yet thele two contrarieties compoie the chief of mine. An active life has no charms for me. I would an hundred times taiher coafert toे be iule l'an to do any thing agriant my will ; and I have an hundred times thought t..at I : wald live not amiss in the Batile, provided I had medie:s to do but juft continue there. In my youngee days I mate leveral atumpts to get in there ; but as they were oilly with the view of procuring a refuge and rell in my old age, and, like the exertions of an indulent perfon, ouly by fits and flarts, they were never attended with the fimalleft fuccefs. When miffortunes came, they afforded me a pretext of giving mylelf op to my r . ling paffion." He often exage rated his misfortuaes to himielf as well as to odiers. He endeavcured particulaly to render interefing by his defeription his mistortunes and his poverty, although the former were far lefs than he imagined, and notwithftandiag he had cersain refources againt the latter. In oticer refpeßs he was charitable, generous, lober, juft, contenting himfelf with what was purely neceflary, and reinfing the means which might have procured him werith and offices. He camot, like many other fophits, be accuted of having, often repeated with a fludied emphatis the werd Virtue, without infpiring the fentiment. When he is feaking of the duties of manlind, of the priuciples neceffary to our happinefs, of the daty we owe to ourfelves and to our equals, it is with a copiuufnefs, a charm, and an impetuofity, that could oniy proceed from the heart. He faid one day to MI. de Buffon, " You have afferted and proved before J. J. Rouffeav, that mothers ought to fuckle their children." "Yes (fays this great naturalit), we have all faid fo; but M. Rouffeau alone forbids it, and caufes himfeif to be obeyed." Another academician faid, "that the virtues of Vulaire were without heart, and thofe of houffear without head." He was acquainted at an early age with the works of the Greek and Roman authors; and the republican virtues there beld forth to y.s:", the rigorous aufterity of Cato, Brutus, \&cc. carried him beyoud the limits of a fimple eftimation of them. Infuenced by his imagination, he admired every thing in we ancients, and faw nothing in his contemporaties but enervated minds and degenerated bodies.
His ideas about politics were almoft as eccentric as his paradoxes about religion. Some reckon his Sacial Compact, which Voltaire calls the Unfocial Compact, the greateit effort bis genius produced. Others find it full of contradictions, errors, and cynical paffagcs, obfcure, ill arranged, and by no means, worthy of his 及uining pen. There are feveral other fmall pieces wrote loy him, to be found in a collcation of his works publimed $\mathrm{E}_{5} 1$.
in 25 vols 8 vo and 12 mo , to which there is appended Rourfatu. a veiy inibuiticart fupplement in 6 vols.

The mofit uletul and mott imporant iruths in this coilcetion are picked out in 1 is Troughes; in which the comaent fuphit and the impious au hor difappent, and not' ing is ofered to the ac lec but the chequent writer and the contemplative morulnh. There viere fonali in his port-folio his Contctions, in twalue bouks; the finit fix of which wete pabkhed. "In the pretice to thele momoins, which a..ound wi.is charachors weil drawn, atu written with warmils, whth everyy, and jumetimes with elegance, he declares (ays MI. I'alfot), Wike a pecsinh mifaathrope, who boldly introduces himifelf on the ruit of the world, to declare to mankind, witom he fuppoles aifembled upon thefe ruins, that in that innumeratio multitude, none could dare to Gay, I am better than that man. This aflectation of feeing himelf alone in the univeife, and of conti:ually, directing every thing to himiclf, may appear to lome morofe minds a fanaticifm of pride, of which we have no examples, at leait fince the time of Cardan." But this is not the only blame which may be attached to the author of the Confe-Tions, With uneafinels we fee him, under the p.etext of for: cerity, dithonouring the character of his bencfactrels Lady Wairan. There are innuendos no lefs offenfive againit obfcure and celebrated characters, which ought entirely or partly to have been fuppretTed. A lady of wit faid, that lhoufieau would have been held in higher ellimation for virtue," had he died without his confe? fion." The fame opinion is entertained by M. Sennebier, author of the Literary Hittory of Geneva: "His confeffions (fays he) appear to me to be a very dangerous book, and paint Rouffeau in fuch colours as we would never have ventured to apply to him. The excellent tunalyfes which we meet with of fome fentiments, and the delicate anatomy which he makes of fome actions, are not lufficient to counterbalance the deteftable matter which is found in them, and the unceafing obloquies everywhere to be met vith." It is certain, that if Rouffeau has given a faithful delineation of forme perfons, he has viewed others through a cloud, which formed in his mind perpetual fufpicions. He imagined he thought juilly and fpoke truly; tut the finplet? thing in nature, fays II. Servant, if diflilled through bsa viulent and fufpicious head, might become poifon. Routfeav, in what he fays of himfelf, makes fach acknowledgments as certainly prove that there were better men than he, at least if we may judge him from the frit fix books of his memoirs, where nothing appoiss but his vices. They ought not perhaps to be feparated from the fix laft books, where he fpeaks of the virlues which nake reparation for them ; or rather the work ought not to have been publified at all, if it be true (which there can ba little doubt of) that in lis conteffions be injured the public manners, botis by the bafenefs of the vices be difclofed, and ky the suanner in which he united them with the virtucs. The other pieces which we find in this new edition of his works ase, 1. The Reveries of a Solitary Wanderer, being a jourral of the latter part of his life. In this he confeles, that he liked better to fend lis children into hofpitals deftined for orphans, thatr to take upon himfelf the charge of their maratensice and education; and endeavours to pallinte this error, which nothing san exculpate. 2. Confiderations upon the Go-

Rouffean vermment of Poland. 3. The Adventurcs of Lord Ed-
II
Rowe. ward, a novel, being a kind of fupplement to the new Heloifa. 4. Various Memoirs and Fugitive Pieces, with a great number of letters, fome of which are very long, and written with too much fudy, but containing fome eloquent paffages and fome deep thought. 5. Emilia and Sophia. 6. The Levite of Ephraim, a poem in profe, in 4 cantos; written in a truly ancient fyle of fimplieity. 7. Letters to Sata. 8. An Opera and a Comedy. c.) Tranflations of the firft book of 'Iacitus's Hiltory, of the Epifode of Olinda and Sophronia, taken from 'affo, \&c. \&c. Like all the other writings of Rouffean, we find in thefe pofthumous pieces many admirable and fome ufeful things; but they alio abound with contradictions, paradoxes, and ideas very unfavourable to religion. In his letters efpecially we fee a man chagrined at misfortunes, which he never attributes to himielf, fufpicious of every body about him, calling and believing hhimfelf a lamb in the midtt of wolves; in one word, as like Pafcal in the flrength of his genius, as in his fancy of always feeing a precipice about him. This is the reflection of M. Servant, who knew him, affifted him, and careffed him during his retreat at Grenoble in ${ }^{17} 768$. This magiftrate having been very attentive in ebferving his character, ought the rather to be believed, as he infpected it without either malice, envy, or refentment, and only from the concern he had for this philofopher, whom be loved and admired.

ROUT, in Law, is applied to an affembly of perfons going forcibly to commit fome unlawful act, whether they execute it or not. See Riot.

HOUTE, a public road, highway, or courfe, efpecially that which military forces take. This word is alfo ufed for the defeat and flight of an army.

ROWE, Nicholas, defcended of an ancient family in Devonfhire, was born in $\mathbf{s} 673$. He acquired a complete taite of the claffic authors under the famous $\mathrm{D}_{\mathrm{r}}$ Bufby in Weflminfter fchool; but poetry was his early and darling fiudy. His father, who was a lawyer, and defigned him for bis own profeffion, entered him a ftudent in the Middle Temple. He made remarkahle advances in the fludy of the law; but the love of the belles lettres, and of poetry in particular, ftopt him in his career. His firf tragedy, the Ambitious Stepmother, meeting with univerfal applaufe, he laid afide all thoughts of rifing by the law. He afterward compofed feveral tragedies; but that which he valued himfelf moft upon, was his Tamerlane. The others are, the Fair Penitent, Ulyffes, the Royal Convert, Jane Shore, and Lady Jane Grey. He alfo wrote a poem called the Biter, and feveral poems upon different fubjects, which have been publifhed under the titte of Mifcellaneous Works, in one volume, as his dramatic works have been in two. Rowe is chiefly to be confidered (Dr Johnfon obferves) in the light of a tragic writer and a tranflator. In his attempt at comedy, he failed fo ignominioully, that his Biter is not inferted in his works; and his occafional poems and fhort compofitions are rarely worthy of either praife or cenfure, for they feem the cafual fports of a mind feeking rather to amufe its leifure than to exercife its powers. In the confruction of his dramas there is not much art; he is not a nice obferver of the unities. He extends time, and varies place, as bis convenience requires. To vary the place is not (iis the opinion of the learned critic from whom thefe ob-
fervations are borrowed) any violation of nature, if the cliange be made betwcen the acts; for it is no lefs ealy for the fpectator to fuppofe himfclf at Athens in the fecond act, than at Thebes in the firf; but to clange the fcene, as is done by Rowe in the middle of an act, is to add more acts to the play, fince an act is fo much of the bufinefs as is tranfacted without interruption. Howe, by this licence, eafily extricates himfelf from difficulties; as in Lady Jane Gray, when we have been terrified with all the dreadful pomp of public execution, and are wondering low the heroine or the poet will proceed, no fooner has Jne pronounced fome prophetic rhimes, than-pafs and be gone-the fcene clofes, and Pembroke and Gardiner are turned out upon the tiage. I know not (fays Dr Johnfon) that there can be found in his plays any deep fearch into nature, any accurate difcriminations of kindred qualities, or nice difplay of paffion in its progrefs; all is general and undefined. Nor does he much intereft or affect the auditor, except in Jane Shore, who is always feem and heard with pity. Alicia is a character of empty noilie, with no refemblance to real forrow or to natural madnefs. Whence then has Rowe his reputation? From the reafonablenefs and propriety of fome of bis fcenes, from the elegance of his diction, and the fuavity of his verfe. He feldom moves either pity or terror, but he often elevatcs the fentiment; he feldom pierces the breaft, but he always delights the ear, and often improves the underflanding. Being a great admirer of Shakefpeare, he gave the public an edition of his plays; to which be prefixed an account of that great man's life. But the moft confiderable of Mir Rowe's performances was a tranflation of Lucan's Pharfalia, which he juft lived to finifh, but not to publifh; for it did not appear in print till 1728 , ten years after his death.

Meanwhile, the love of poetry and books did not make him unfit for bufinefs; for nobody applied clofer to it when occafion required. The duke of Queenfberry, when fecretary of ftate, made him fecretary for public affairs. After the duke's death, all avenues were ftopped to his preferment; and during the reft of Queen Anne's reign he paffed his time with the Mufes and his books. A ftory, indeed, is told of him, which flows that he had fome acçuaintance with her minifters. It is faid, that he went one day to pay his court to the lord treafurer Oxford, who afked him, "If he underflood Spanifh well ?" He anfwered, "No:" but thinking that his Lordftip might intend to fend him into Spain on fome honcurable commiffion, he prefently added, "that he did not doubt but he could fhortly be able both to underliand and to (peak it." The earl approving what he faid, Rowe took his leave; and, retiring a few weeks to leam the language, waited again on the Earl to acquaint lim with it. His Lordfhip afking bim, " If he was fure he underfood it thoroughly ?" and Rowe affirming that he did, "How happy are you, Mr Rowe," faid the Earl, "that you can have the pleafure of reading and underftanding the Hiftory of Don Quixote in the original!" On the acceffion of George I. he was made poet laureat, and one of the land furveyors of the cuftoms in the port of London. The prince of Wales conferred on him the clerkflip of his council; and the Lord Chancellor Parker made him his fecretary for the prefentations. He did not enjoy thefe promotions long; for be died De6. 6, 1718, in tis 45 th year.

## $\mathrm{R} O \mathrm{~W} \quad\left[\begin{array}{lll}321\end{array}\right] \quad \mathrm{R} O$ W

Rotve. Mr Rowe was twice married, had a fon by his firt wife, and 2 daughter by his fecond. He was a handfome, genteel man ; and his mind was as amiable as his perfon. He lived beloved; and at his death had the honour to be lamented by Mr Pope, in an epitaph which is printed in Pope's works, although it was not affixed on Mr Rowe's monument in Weflminter abbey, where he was interred in the poet's corner, onpofte to Chaucer.

Fowe, Elifabeth, an Englifh lady, emine:t for her excellent writings both in profe and verfe, horn at itchefler in Somerfetthire in $16_{4}$, was the da gher of worthy parents, Mr Walter Singer and Mrs Eilabeth Portnel. She received the fir? ferious impretifons of religion as foon as fre was capable of it. There being a great afinity betweea painting and peetry, this lady, who had a vein for the one, naturally had a tafte fur the other. She was alfo very fond of mufiz; chiefly of the grave and folemn kind, as beft futced to the grandeur of her fentiments and the fublinity of her devotion. But poetry was her favourite emoloyment, her diftinguihing excellence. So prevalent was her genius this way, that heer profe is a!l poetical. In 1 syb, a collection of her poems was publifhed at the defire of two friends. Her paraphrafe on the sxxuilith chapter of Joo was written at the requett of Bilhop Ken. She haḍ no other tutor for the French and Italian langeases than the honourable Mr Thyme, who willing!y took the tals upon himelf. Her fhining meril, with the clarms of her perfon and converfation, had procured her a great many admirers. Amory others, it is faid, the famous Mrr Prior made his addreiies to heer. But Mr Thomas Rowe was to be the happy man. This gentlem nn was honourably defcended: and his fuperior genius, and infatiable thirft after knowledge, were confpicuous in his carlieft years. He had formed a defign to compile the lives of a!l the illuftrious perfons in antiquily omitted by Plutarch; which, indect, he par:ly executed. Eight lives were publighed fince lis deceafe. They were tranflated into French by the ab'é Bellenger in 172.4. He fpoke with eafe and fluency; had \& frank and benevolent temper, an inexhauftible fund of wit, and a communicative difpofition. Such was the $\operatorname{man}$ who, charmed with the perfon, character, and writinge, of our authorefs, married her in 1710, and made it his fudy to repay the felicity with which fie crowned his life. Too intenfe an application to fludy, beyond what the delicacy of his frame would bear, broke hi healih, and threw him into a confumption, which put a period to his valuable life in May 1715 , when he Was but juft palt the 28 th year of his age. Miss Rowe wrote a beautiful elegy on his death; and contirued to the laft moments of her life to exprefs the high ver eratiun and affection for his memory. As foom ai $r$ his deceafe as her affliirs would pernit, the indul $\%$ ed her inclination for folitude, by retiris's to Frome, in Somerfethire, in the neighbourhoor' of which alice the greateft part of her eflate lay. In tt recefs it was that The comonfed the moft celebra i f her works, Friendhip in Death, and the Lett 2 nal and Entertaining. In 1-26, the publith he HiRory of Ooferh; a poem which fhe had wri: (in her younger years. She did not long furvive this publication; for the died of an anonlexy, as reas fupmined, Feb. 20. 17,37 . In har catinst wete found letters to feveral of YoL. XVIII. Part I.
her fitends, whicis the had ordered to be delivered immediately after her deceafe. The Rer. Dr Iface Watts, agreeably to her requeft, reviled and publifhed her devotions in 1737 , under the title of Devout Exercifes of the Heart in Meditation and Soliloquy, Praife and Prayer; and, in 1739, her Mifcella:cous Works, in profe and verfe, were publihied in 2 vols 8 vo , with an account of her life and writings prefixed.

As to her perfon, hie was not a regular beauty, yet poffefed a lirge flare of the charms of her fex. She was of a moderate ftature, her hair of a fine colour, her eyes of a darkiith gray iicli ing to blue, and full of fre. Here ma lexion was very frir, and a natural blufis glowed in i.er chacks. S'e froke gracefully ; her voice was exceedingly fiveet ond harmonicus; al.d thic had a Eoftnefs in her alpect which infirel love, yet not without fome misture of that awe and vencration which diAinguifhed fenfo and viltue, apprarent in the countemance, are wont to create.
ROWEL, among farriets, a kind of iffue anfwering to what in furgery is called a fe:on. Sec Farmieky, fect. v.

ROWLEY, a monk who is faid to lave dlourithed at Briful in the 15 th century, and to have been an author voluminous and elegant. Of the poeras attributed to him, and publified fome time aso, vanious opininos have been emtertained, which we have noticed eife: here. They feem now to be almolt forgotien. Sie Chitferten.

RowLey, IV:/iam, who flands in the third clafs of dramatic witers, lived in the reign of King Charles I. and reccived his eclucation at the univerfity of Cambridge; but whether he tock ary degree there, is not evident; there being but few particilars preierved in regard to him more th an his clufe intimacy and connection with all the principal wits and poetical geniufes of that age, by whom he was well helovec, and with fome of whom he joined in their with. s. Whad fyles hit "the ornament, for wit and ingenuity, of Penbrokehall in Cambridge." In a word, he was a very great benefactor to the Englim fage, laving, exclufive of his. aid Ient to Middleton, Day, Heywood, Wobller, \&:c.. left us five plays of his own compoling, and one it which even the imnortal Shakeffeare afiord bime fome affilance.

ROWNING, Jorn, an Englihmathematician and philofopher of contiderable ingenuity, was fellow of Masdalen college, Cambridge, and aficrwards retior of Anderby in Lincolnniire, in the gift of that fociety. He conflantly attended the meetings of the Sjalding fociety, and was a man of an extraordinary phillfophical habit and turn of mind, while at the fame tin.e his difo poiitions were focial and cheerful. His genius rias peculiarly fitted f.r mechanical contrivances or inventions. He puhlifhed a compendious fy ftem of Natural Philofophy at Cambridge, in the year 1738 , in two vols. 8 vo ; ; a work of much ingenuity, which has gone through feveral editions. He likewife inferted two pieces in the Philofophical Tranfagions, uiz. a defcription of a barometer, wherein the fe ale of variation may he increafed at pleafure ; vol. xsxviii. P. 39.; and diredtions for making a machine for finding the roots of equations univerfilly, together with the mannce in which it is to be ufed; vol. 1x. p. 24 2.

He died at his lodgings in Catey frcet, rear Lin$\mathrm{Tt}_{\mathrm{t}}$
coln's.

> Rove Rowrin Rovering.

## $\mathrm{R} O \mathrm{X} \quad\left[\begin{array}{lll}322\end{array}\right] \quad \mathrm{R} O \quad \mathrm{X}$

Rosburgh- coln's-ina Fields, in the end of Norember 1771, at 72
 years of age. Though a man both ingenious and plea- fant, his external appearance was rather forbidding, as he was tall, thooped in the fhoulders, and his countenance was down looking and fallow.

ROXBURGE:SHIRE, a county of Scotland, which is alfo known by the name of Teviotdale, meafures about 40 miles in length from noth to fouth, and in breadtin aboat 36 miles in a direction between eaft and weft; containing 472,320 \{quare acres. The centre of the county is computed to lie in $55^{\circ} \cdot 25^{\prime}$. N. Eat, and in $2^{\circ} \cdot 37^{\prime}$. W, Long, from the meridian of London. The counties of Northumberiand and Cumberland form its boundary on the fouth; it is alfo bounded by the former county on the eaft, by Berwickfhire on the north, and on the weft by the counties of Dumfrics, Selkisk, and Edinburgh.

The external appearance of this county is regarded as upon the whole extremely beautiful, exhibiting an alternate fucceffion of hills and dales, through which flow a confiderable number of fmall rivers. The greater part of the hills are covered with a fine frard, producing valuable graffes for the feeding of fheep; and the county is divided into four different diftricts, the molt mountainous part of it being denominated the diftrict of Hawick; the fecond is that of Jedburgh; the third is the diftrict of Kello, and the fourth is known by the name of the dilrict of Melrofc, being compoled of that part of the county which is fituated to the northward of the reit.

The moft remarkable hills in the county of Roxburgh are Minto, $8 ; 8$ icet above the level of the fea; Dunion 1021 ; Eldon 1330 ; Ruberflaw $14{ }^{19}$; Carterfell 1602 , wifp $18=3$. Thefe conftitute a part of that extenfive range generaliy known by the appellation of Cheviot, which is diflant not above a mile from the moft eaflerly point of Roxburgh. Whinftore is their chief conftituent, in which veins of Scotch pebbles are ufually interfierfed. They are often covered with whinftone reduced to the thate of powder by tlee action of the weather. The hills towards their fummits are in general of it conical form, a circumftance which fome think is favuurable to the volcanic fyftem; -that the globe at fume remote period has fuffered the moft dreadful convalfions from the irrefiftible action of fire.

The county of Roxburgh is interfected by a multitude of fieans, the moft important of which are the Teviut, Jed, Tweed, Rule, Kale, Oxnan, Gala, Slitrig, Ale, Caller, Corthwick, Ednam, Bowmont, Allan, Leader, Ettrick, Hermitage, Liddel. The term river is rarely applied to any of thefe freams, evcept to the three firt, viz. the Teviot, the Jed, and the Tweed, none of which are navigabie but for fmall ferry boats. Some rivers is England, fuch as the Tyne, the Corket, \&ic. have their origin in the more elevated parts of the county of Roxburgh.

In an agricul ural point of viev, Ruxburghfhive may be divided ints land under tillage and under pafture, although a confid:rable portion of the latter may be reduced to arable land. The foils under tillage may be divided into lizht and clayey, the former of which is afually denominated grcen, and the latter quite foil, becaufe it is bez ada; ted to the rearing of o"'s, wheat, and other white griis. W) hat is calcel ill in Roxturghthire, generally confits of a hand clay internfsed
with ftones, by which it refembles coarfe gravel. Moft Rosburgiof the diferent feecies of till may be changed into a flure. fertile foil in proce. s of time, by being expoled to the action of the atmofphere, and mixed with lime and manure. Sweet, four, and healthy, are the terms by which lands under pafture are ufually dittinguifhed, and thefe are conferred from a confideration of the nature of the foil, its graffes, and fuch other circumfances as indicate them to be favourable or unfavourable for the rearing of fheep. Much of thefe lands was, at a remote period, under wood and heath, the exiftence of the former being pointed eut by the roots of trees ftill remaining in the ground. The foil in general is fharp and dry upon the hills; but fome of the high moors and the grounds in the vicinity of rivers are wet and marfhy.

There are different tracts of land in this county which fill' continue in a ftate of nature, a portion of which kind, meafuring about four miles long and two broad, runs through part of the parifhes of Ancrum and Roxburgh, chiefly of a light gravelly nature, covered with heath, bent, and other coarfe graffes. The large difrict of Liddefdale is wholly under theep-pafurage, with the exception of a few ftripes on the banks of the Liddel and Hermitage. Indeed a cold wet foil, an expofed fituation, and unfriendly climate, hold out few incentives to improvements in agriculture. In ancient times this muft have been very different from what it is at prefent. The marks of the plough can fill be traced on the fummits of lofiy mounlains, where the production of crops at this day is wholly impracticable. The counties on the burders were not, at a remote period, poffeffed by individuals in large detached portions, but the prople of a whole neighbourhood had their alternate ridges, in which cafe they became interefted in defending the property of each other againft invaders and plunderers. The wars of the border, however, were happily terminated by the union of England and Scotland under one fovereign, in cenfequence of which the bulding of properly in what was denominated runrigg, Ho longer poffefied its ancient advantages, but was rather a difadvantage, as it created conftant quarrels and difputes among farmers, and greatly retarded the improvement of the foil. Each individual, therefore, became anxions to have his lands detached from thofe of his neighbours, an advantageous change which was very foon and very generally adopted.

A Mr Dawion, the fon of a farmer in Roxburghflire, having refided four years in the weft riding of Yorkfhire, and a year in Effex, thereby made himfelf well acquainted with the moft approved methods of hufbandry practifed in England, and returned to his native country in the full allurance of being abie to introduce into the agriculture of Scotland the moft effential improvements. On his arrival in Roxiu hihire in the year 1753, he immediately introduced the turnip hufbandry, which lee fowed in drills, and was certainly the frit Scots farmer who introduced the cultivation of turnip into the open field. His ne ghbours being wholly ignorant of the agricultural knowles. which this young gentleman had acquired in En lani, leagan to predice his ruin as whollv inevitable ; but he was not to be intimidated by their prophetic fenfintents, a d he went on refulutely ia bringing lis lands in', the very hef condition, which be fully erece.ed by means of the turnip h.Bandry,

## R O X [ $3^{23}$ ] R O X

Rarburgh-bufoandry, by the fowing of artificial graffes, a practice fire then unknown in Scotland, and by the free and extenfive ufe of lime. By fuch a procedure his neighbours faw him becoming rapidly opulent, and having followed his example with the molt flattering fuccefs, they were conftained to alter their fentiments refpecting his conduct as a farmer, and to hail him the father of the agriculture of the fouth of Scotland.

The rotation of crops now followed in this county has nothing in it of a peculiar nature, the arrangement on a dry foil being generally oats, turnips, barley with graffes, hay or patture for one year, then barley as before. Where the foil is good and properly prepared, it is not uncommon with farmers to adopt the fullowing rotation, siz. oats, turnips, oats, tirnips, theat or barley with graffes, and hay or pafture for one ycar. part of Roxburghfhire has becn long celebrated for a fpecies of oats wuich produce early crops, and which are known by the appellation of Blainlly oats, becaufe they have been produced at Blaintly fiom time immemorial, which is a diftrict in the parith of Melrole, and northern extremity of the county. Thefe are often five fhillings a boll dearer than common oats, and in no fituation whatever are they known to degenerate. In fome rich foils the produce is 16 or 18 for 1 , and the lowelt arerage produce is at leaft fix for one. The general practice of feeding cattle with turnip has diminifhed the culture of peale and beans in this county, and there are fo few potatoes reared that they cannot be regarded as forming a part of the farmer's crop. Extenfive crops of hay are not in general cultivated in this county, there being but few cities in which an advantageous market could be found; and the ufe of it is in a great meafure Gupplanted by that of turnip. Litte more flax is rcared than what is neceffary for domeftic purpofes.

There is a circumlance worthy of obfervation, that the rearing of tobacco was, at one period, aitempted in this county with remarkable fuccels. It wa: introduced by a Mr Thomas Man, who had been for lome time in Ametica. Soon after the firf experiments were made, a fingle acre of land produced a crop worth 701 .fterling; and the crop of 13 acres was fold on the ground for 3201 .; but in confequence of an act of parliament prohibiting the culture of it, the purchafer could not implement his bargain, and the farmer was obliged to Iell it to government at the rate of fourpence a pound, in confequence of which it brought him no more than 1041 . initead of 320 .

Great quantities of cattle are fed in this county, and about 260,000 fheep of the Cheviot breed in general, which are found to thiare remarkably in every part of the county. The horfes are cither of the Englifh breed, or from Lanarkfhire, which latter are deemed preferable for fleady work in the plough. Although fivine are not kept by the farmers as a part of their flock, yet great numbers of them are reared by tradefmen, cottagers, hinds, and otherc, the fmall breed being chietly preferred, not exceeding eight or nine flones Englifh each. Roxburghflire is a.fo famous for the rearing of poultry, and immenfe quantitic of eggs are fent f: im it to Berwick, to be flip ed fot the London ma $k$ i. Crows are here fo numerous, that hey frequently dirt en the air in the t flight, and aze ext emely deftruclive to every fpecies of grain. $\Delta$ gre't part of the county is uninclofed, and the fences made ufe of are the hedege
and ditch, although in fome places upright fone dykes Roxburth have the decided preference, where flunes can be readily procured.

The orchards of Roxburgh county have been long cclebrated for different kinds of fruit, and there are here two extendive nurferies for the rearing of trees. Thefe late are at. Haffencean bum in the parih of Minto, and at Hasvick. I he whole cu-nty, bowever, like that of Betwick, is extremely defcetive in mineral productions, and coal has nowhere been found. Limettone is no doubt met with in different places of it, bat the want of fuel requifte for its calcimatiou, induces farmers to bring it from Dulkeith or Edimbursh, in thein corn carts, which might o hervife rcturn emphy.

In the vicinily of dedourgh there are two fprings of chalybeate water, with indications of more in differont parts of the parilh, which have not yet been fubjected to any examination or analylis, although the watcrs of Tudlope well have been res arded as antifcorbutic, and of ufe allo in rheumatic diforders.

In this county there are many rensins of anliquitए, fuch as ancient ftrong buildings, and veftiges of camps. Difierent remains of encampments and fortifeations are to be met with in the parifh of Roberton, which in all probability have been the work of the Romans. Hermitage caftle is fituated upon thie bank of the river of the fame name, and is nearly 100 feet fquare, defonded by a ftrong rampart and ditch. The inner part of it is a heap of ruins, but the walls are almoft entire. This is probably the very caftle mentioned by Sinellet, which was built in Liddeldale by Alexander 11. and which gave fuch offerce to Heniy III. of England, tlat he made war on Alexander in the year 1240 . There are feveral caves or receffes on the banks of the Ale water, not ferrer than fifteen of which, it is faid, may be fill pointed out, in fome of which the veliges of chimmeys or fire-places are very difcernible. Althourh at fiff ufed by plunderers as places of tafe retreat, they wore no doubt afterwards employed by the peorcr clafies of the community as their ordinary habitations. P'erhaps the abbey of Melrofe is the mof diltinguifhed motiument of antiquity to be met with in this county ; for an account of which the reader may confult the article Melrose.

Roxburglinire has given birth to fome of the moft eminent characters who have adorned the republic of letters, among whom we find Dr Joln Armftrong, a dittinguifhed phyfician and poet ; James Thomfon, the far-famed author of the Seafons; the poet Gawia Douglae, at one time rector of Hawick, afterwards bifhop of Dunkeld; and the celebrated George Auguftus EHliot, afterwards Lord Iteathfield.

Natwithat, nding the difficulty of procuring fuel it this county, feveral manufaftures have been carried on with a confiderable degree of fpirit and determinued perfeverance, the chief of which are carpets, inkle, clet? and llockings, in the manufacture of which nearly $300^{\circ}$ packs of wool (each 12 fones) have been annually confrmed. Ab ctt $\downarrow<25$ pairs of fockings have been made in the fame tim...nd 10 tons of linen yarn confumed in the m kit: of inkle.

The populd ion of this county, entimated in 180 r . amounted to $3,3,682$; and the following is 11 , ; alation according to the parifhes, taken fom the Sthitical Hiftory of Scotland.

1 2
Paripas.


ROXENT.cape, or Rock of Lihon, a mountain and xernarkable promontory in Portugal, fituated in the Atlantic ocean, at the nooth entrance of the Tagus, 22 miles north of Libon.

ROYAL, fomething belonging to a king: thus we f.y, royal fomily, royal affent, royal exchange, \& c.

Ror.sl Family. The firf and mofl confiderable branch of the king's royal farnily, regarded by the laws of England, is the queen.

1. The queen of England is either queen regemt, queen confort, or queen dowager. The queen $r$ (gent, regnant, or foucreijn, is the who liolds the crown in her own tight; as the firtt (and perbaps the fecond) Queen Mary, Queen Elifabeth, and Queen Anne; and fuch a one has the fome powers, prerogatives, righs, diguities, and duijee, as if the had been a hing. This is exprefly de: clared by flatute I Mar. I. f. 3. c. 1. But the queen sinfort is the wife of the reigning ling, atd fle by virsue of her raariage is participant of divers prefogatives above other women.

And, firft, the is a public perfon, cxempt and diftinet from the king; and not, like other married women, fo clofely connected as to have loft all legal or feparate c.iflence fo long as the marriage continues. Fur the queen is of ability to purchafe lands and to convey
them, to make leales, to grant copyholds, and do other -Poosal : acts uf ownerhap, without the concurrence of her lord; which no other married woman can do: a privilege as old as the Saxon eta. She is alio capable of taking a graat fiom the king, which no other wife is from her hulband; and in this parricuial the agrees wath the ousgufla or putbina regina conjux divi imperatoris of the Roman laws; who, according to Juftnian, was equally capable of making a grant to, and receiving one from, the emperor. The queen of England hath feparate courts and officers dultinct from the king's, not only in matters of ceremony, but even of lasw; and her attomey and folicitor general are entitled to a place within the bar of his majefty's courts, tog ther with the king's counfel. She may likewife fue and be lued alone, without joining her buiband. She may alio have a feparate property in goods as well as lands, and has a right to difpofe of them by will. In chort, the is in all legal proceedfings looked upon as a feme fole, and not as a feme covert; as a fingle, not as a married woman. For which the reafon given by Sir Edward Coke is this: becaule the widom of the common law would not have the king (whofe continual care and ftudy is for the public, and circo ardua regni) to be troubled and difquieted on account of his wie's domeflic affairs; and therefore it velts in the queen a power of tranfacting her own coscerns, without the intervention of the king, as if fhe were an unnarried woman.

The queen ha:h alfo many exemptions, and minate prerogatives. For inflance: the pays no toll; nor is the liable to any amercement in any court. But in geo neral, unlefs where the law has exprefsly declared her exempt, fte is upon the farme footing with other fubjects; being to all inteats and purpofes the king's fulject, and not his equal: in like manner as in the imperial lan, Avazafus legibas folutus ron eff.

The queen bath alfo fome pecuniary atvantages, which form her dittinct revenue: as, in the firf place, fhe is entilled to an ancient perquifite called gqueen gold, or auruns regino ; which is a royal revenve belonging to every queen-confort diring her marriage with the king, and due from every perion who hath made a voluntary offering or fine to the hing, amouating to 10 merks or upwaids, for and in confideration of any privileges, grants, licences, pardons, or other matter of royal favour conferred upon him by the king: and it is due in the proportion to one-tenth part more, over and above the entire offering or fine made to the king, and becomes an actual debt of record to the queen's majefy by the mere recording of the fine. As, if 100 merks of filver be given to th, King for liberty to take in mortmain, or to have a fair, market, park, chale, os free warren; there ihe quecu is intittled to 10 merks in filver, or (what was formerly an equivalent denomination) to one merk in gold, by the name of queen.gold, or curum regine. But no fuch payment is due for eny aids or ful fidies granted to the hing in parliament or convocation; or for fines impofed by courts on cffenders againit their will ; nor for voluntary prefents to the king, without any corfideration moving fiom him to the fuhjeet; nor for any fale or contract whereby the prefent revenues or poffefions of the crown are granted away os diminifhed.

The original revenue of our ancient queens, before and foon after the conqueft, feems to bave confifled in

## It O Y 月

Royast. ceztain refiervations or rents out of the demefne lands of the crown, which mere exprefsly appropriated to her majerty, diftingt from the king. It is frequent in domeday book, atier fpecifying the rent due to the crown, to add likewife the quantity of gold or other renders referved to the queen. Thefe were frequently approprened to xaticulir pucpoies; to buy wood for her inajeity's ule, to parchale ofl for lamps, or to furnii.h her attirch from head to foot, which was frequently very coltly, as one fingle robe in the fith year of Henry 11. ftood the city of London in upwards of 80 pounds: A practice fomervhat fimilar to that of the ealtern countries; where whole cities and provinces were fpecifically affigned to purchafe particular parts of the queen's apparel. And for a farther addition to her income, this daty of queen-gold is fuppofed to have been originally granted; thole matters of grace and favour, out of which it arole, being freguently obtained from the cronn by the powerful interceffion of the queen. There are traces of its payment, though obtcure ones, in the book of domedey, and in the great pipe-roll of Harary I. In the reign of IIenry 11, the manner of colleaing it appears to have been well underfood; and it forms a diftinet head in the ancient dialogre of the cxchequer written in the time of that prince, and ufually atiributed to Gervafe of Tilbury. From that time downwards, it was re, ularly claimed and enjoyed by all the queen-conforts of Ingland till the death of Henry VIII, though after the acceffion of the Tulor family, the collecting of it feems to have beent mach neglected: and there beine no quee confort afterwards till the accefinon of James I. a period of near 63 years, its very nature and quantity then became a matter of doubt; and being referred by the kino to the chief japices and chief baron, their report of it was fo very urfavourabie, that his confort Queen Anne, though the claimed it, yet never thought proper to exact it. In 1635 , is Car. I. a time fertile of expedients for raiing money upon dormant precedents in our old records (of which flip-maney was a fatal inltance), the king, at the qetition of his queen Henrietta Maria, iflued o:th his writ for levying it; but afterwards purchafed it of his confort at the price of 10,000 pounds; finding it, perhaps, too trifing and troublofore to levy. And, when afterwards, at the Reftoration, by the abolition of military tenures, and the fines that were confequent upon them, the little that legally remained of this reverue was reduced to almoft nothinv at ail ; in vain did Mr Prynne, by a treatife that dos honour to his a'silrties a9-a ginful and judicious antiqutrian, endeavour to excite Queen Catherine to revive this antiquated claime

Anokiter ancient perquifte belonging to the queen coafort, mentioned by all our old writer', and therefore only wor:hy notice, is this : that on the taling a swhale on the conites, ktlieh is a royal fifh, it fhall be divided beraveen the king and queen; the head anlv being the kirg's pronerty; and the tatl ofift the queen's. Deppurgivne offorveiur. quad rix illume labebit integrumit: de $\ell$. Lena vero fuffit. A reet hembeal capitt, ct regina caurdom. The r af of of thewhimieal divifion, as affighed by our an>i up'tecards, 4a4, to furnifly the qqueen's wardrube wil $w^{i}=t$ me.

But if fary p, orgtion que queen is in all refpects a

perfon, fle is put upon the fame footing with he king. It is equally treafon (by the ftatute 25 Edivard HII.) to imagine or compafs the death of our lady the king's companion, as of the king himfelf; and to violate or defile the queen confort, amounts to the fame high crime; as well in the perfon committing the fact, as in the queen herfelf if confenting. $\Lambda$ law of Ifenry V111. made it treafon alfo for any woman who was not a virgin, to marry the king rithout informing him thereof. but this las was foon after repealed; it trefpaffing too Itrongly, as well on natural juftice as female modefty. If however the queen be acculed of any fpecies of treafon, the flall (whether confort or dowager) be tried by the peers of parliament, as Queen Ann Buleyn was in 28 Hen Vill.

The hurband of a queen regnant, as Pince Gerrge of Denmark was to Queen Anne, is her fubject; and may be guilty of high treafon againf her: but, in the intance of conjugal fidelity, he is not fubjected to the fame penal reffictions. Fur which the seafon feems to be, that if a queen confort is unfaitheul to the royal bed, this may debafe or bastardize the heirs to the crown; but no fuch danger can te confequent on the fidelity of the huthand to a queen regnant.
2. A queen dowazer is the widow of the king, and as fuch enjoys mott of the privileges belonging to her as queen coafort. But it is not bish trealon to confive tor death, or to violate her chaitity; for the fame reafon as was before alleged, becaufe the fucceftion to the cronn is not thereby endangered. Yat fill, fro disuiate rezali, no man con mairy a gucen-dowager: withnut fpecial licence from the king, on pain of forfeitirg his lands and goods. This Sir Idward Ceke tells us, was en.uted in parlimment in 6 Henry VI. though the fatute be not in print. But the, though in alien born, fhall frill be entitled to dower after the king's demife, which no otler atien is. A queenduwarer whea married azain to a fubject, doth not lofe her rigal dignity, as peerefics-dowager do when they marsy communers. For lishmine, queen-dow ager of Yitery $V$, thou, h fle merried a p:ivate gentleman, Owen ap Meredith ap Theodore, counmonly called Owen Tiwin'; yet, by the name of Katharine guien of Engiand, mairtained an achin againt the biftiop of Carlile. And fo the dowager of Nuvarre marying with Edmond the brotker of Kibug Edward I, naintained an action of dower by the prome of quectr of Na . varre.
2. The prigce of Wats, or heir apparent to the crown, and alfo his royal contort atd the princef3 royal, or eldeft daughter of the king, are ilicwife peculiarly regarded by the daws. For, by ftatute 25 Edu: III. to compafs or confpire the ceath of the former, or to violate the chinity of cither of the latier, are as much ligh treafon a. to confpire the death of the king, or violate the challity of the quecn. And this upon the fame reafort os was before given; bccaufe the prince of Wales is next in fuccellion to the crown, and to violate his wife might taint the bloodroyal with baftardy; and the elden daughter of the king is alfo alone inheritalle to the crown on failure of iffue malc, and therefore more refpected hy the laws than any of her younger fifters; infomuch that upon this, united with other ('eodal) principlec, while pur, military tenures were in force, the king might levy an

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Roval. aid for marrying his eldeft daughter, and her only. The heir apparent to the crown is ulually made prince of Wales and carl of Cheiter, by fpecial creation and inveftiture; but being the king's elfeft fon, he is by inheritance duke of Cornsall, vithout any new creation.
4. The reft of the royal family may be confidered in two different lights, according to the different fenfes in which the term royal family is ufed. The larger fenfe includes all thole who are by any poffibility inheritable to the crown. Such, before the revolution, were all the defcendants of William the Conqueror; who had branched into an amazing extent by intermarriages with the ancient nobility. Since the revolution and aet of fettlement, it means the Proteltant iffue of the princefs Sophia ; now comparatively few in number, but which in procefs of time may pofiibly be as largely diffured. The more confined fenfe includes only thofe who are in a certain degree of propinquity to the reigning prince, and to whom therefore the lav pays an extraordinary regard and refpect ; but after that degree is paft, they fall into the rank of ordinary fubjects, and are feldom confidered any farther, unlefs called to the fucceffion upon failure of the nearer lines. For though collateral confanguinity is regarded indefinitely with refpe: to inheritance or fucceffion, yet it is and can oniy be regarded within fume certain limits in any other refpect, by the natural conflitution of things and the dictates of pofitive law.
The yourger fons and daughters of the king, and other branches of the royal fanily, who are nct in the immediate line of fucceffion, were therefore little farther regarded by the ancient law, than to give them a cortain degree of precedence before all peers and public officers as well ecclefiaftical as temporal. This is done by the ftatute 3t Henry VIII. c. 10 , which enacts, that no perfon except the king's children fhall prefume to fix or have place at the fide of the cloth of eftate in the parliament chamber; and that certain great officers therein named fhall have precedence, abore all dukes, except only fuch as fhall happen to be the king's fon, brother, uncle, nephew (which Sir Edward Coke explains to fignify grandfon or nepos), or brother's or fifler's fon. But under the defrription of the kin's childrct, his grandons are leeld to be included, without having recourie to Sir Edward Coke's interpretation of nophew'; and therefore when his late majefty King George II. created his grandfon Edward, the fecond fon of Frederick prince of Wales deceafed, duke of York, and referred it to the houfe of lords to fettle his place and precedence, they certified that he ought to have precedence next to the late duke of Cumberland, the then king's vounceft fon ; and that he might have a feat on the lefi hand of the cloth of eftate. Bit when, on the acceflion of his prefent majeftv, thefe royal perforages ceafed to twike place as the chitdren, and ranked only as the brother and uncle of the king, they alfo left their feats on the fide of the cloth of eflate; fothat when the duke of Glouceller, his majefty's fecond brother, took his feat in the houle of peers, he was placed on the ut per end of the earls bench (on which the d: kes ufually fit) nevt to his royal high e's the duke of Y rk. And in 1717 , upon a queftion referred to a 1 the judges by King George 1 . it vas refolved, by the opinion of ten againft the other
two, that the edecation and care of all the king's errand. children, white minors, did belong of right to his majcity as king of this realm, even during their father's life. But they all agreed, that the care and approba. tion of their marriages, when grown up, belonged to the king their grandtather. And the judges have more recentiy concerred in opinion, that this care and approbation extend alfo to the prefumptive heir of the crown; though to what other branches of the royal family the fame did extend, they did not find precifely determined, The moif frequent inflances of the crown's interpofition go no farther than nephews and nieces; but exampleo are not wanting of its reaching to more diftant collaterals. And the llatute of Henry VI. before mentioned, which proxibits the marriage of a queen-dowager without the confent of the king, afligns this reafon for it: " becaule the difparagement of the queen fhall give greater comfort and example to other ladies of eftate, who are of the blood-royal, more lightly to difparage themifelves." Therefore by the fatute 28 Hen. VIII. c. 18. (repealed, among other fatutes of treafons, by 1 Edw. VI, c. 12.) it was made high treafon for any man to contract marriage with the king's children or reputed children, his filters or aunts ex parte paterna, or the children of his brethren or fitters ; being exactly the fame degrees to which precedence is allowed by the flatute 31 Hen. VIll. before-mentioned. And now, by flatute 12 Geo . III. c. 11. no defcendant of the body of King Geo. I1. (cther than the iffue of princeffes married into foreign families) is capable of contracting matrimony, without the previous confent of the king fignified under the great feal ; and any marriage contraEled without fuch a confent is void. Proxided, that fuch of the faid defcendants as are not above 25, may, after a twelvemonth's notice given to the king's privy council, contract and folemnize marriage without the confent of the crown ; unlefs both houfes of parliament fhall, before the expiration of the faid year, exprefily declare their difapprobation of fuch intended mariiagc. And all perfons folemnizing, affifting, or being prefent at any fuch prohilited marriage, fhall incur the penalties of the fatute of premunire.

Rorsil Oak, a fair fpreading tree at Bofcobel, in the parifh of Donnington in Staffordflire, the boughs of which were once covered with ixy; in the thick of which King Charles 1I. fat in the day-time with Colonel Carelefs, and in the night lodged in Bofcobel houfe: fo that they are miftaken who fpeak of it as an old hollow oak; it being then a gay flourihing tree, furrounded wilh many more. Its foor remains are now fenced in with a handfome wall, with this infcription in gold letters: Feliciliimann arborcm quam in ofylum potentiffimi regis Caroli II. Deus op. max. per opuen reges regnant, hic crefcere voluit, \&\&c.

Roral Society. See Society.
ROY AITIES, the rights of the king; othervife called the king's prerogative, and the regalia. See Przrogative and Regalia.

ROYENIA, a genus of plants belonging to the decandria clafs; and in the natural method ranking under the 18 th order, Bicornes. See Botany Index.

ROYSTON, a town of Herlfordhire in England, feated in E Long. 0. 1. N. Lat. 52.3. It is a large place, feated in a fertile valc full of inns, and the marliet is' very confiderable for corn. There was lately
diifoovered.

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Royiton difuovered, almoft under the market-place, a fubterraneous chapel of one Rofia, a Saxon lady: it has leveral altars and images cut out of the chalky fides, and is in form of a fugar-loaf, having no entrance but at the top.

RUBBER, India. See Caoutchouc.
RUBENS, Sir Peter Paul, the molt eminent of the Flemifh painters, was born in 1577 ; but whether at Antwerp or Cologne is uncertain. His father, who was a counfellor in the fenate of Antwerp, had been forced by the civil wars to feek refuge in Cologne, and during his refidence there Rubens is commonly fid to have been born.

The genius of Rubens, which began to unfold itself in bis carliell years, was cultivated with peculiar care, and embellifhed with every branch of claffical and polite literature.

He foo difcovered a flong inclination for defigning; and uled to amufe himfelf with that employment in his leifure hours, while the reft of his time was devoted to other ftudies. His mother, perceiving the bias of her foo, permitted him to attend the inftructions of Tobias Verhaecht a painter of architecture and landfcape. He next became the pupil of Adam Van Oort, but he foo found that the abilities of this matter were infufficient to anfwer his elevated ideas. His fully temper too was difgufful to Rubens, whole natural difpofition was modeft and amiable.

Anxious to find an artist whole genius and difpofitions were congenial with. his own, he became the difsiple of Octavio Van Ween, generally known by the name of Otho Venus, a painter of fingular merit, and who was not only failed in the principle of his art, but also ditinguithed for learning and other accomplithments. Between the matter and fcholar a remarkable fimilarity appeared in temper and inclination; indeed, in the whole turn of their minds. It was this congeniality of fentiments which animated Rubens with that ardent paftion for the art of painting which at length determined him to purfue it as a profeflion. From this time he gave up his whole mind to it ; and fo fuccefsiul were his exertions, that be Jon equalled his matter.

In order to arrive at that perfection which he already beheld in idea, it became requifite to trudy the productions of the mol eminent artifts. For this purpofe he travelled through Italy, vifiting the mol valuable collection of paintings and antique fatues with which that country abounds.

Sandrart, who was intimately acquainted with Rubens, informs us, that he was recommended in the molt honourable manner to the duke of Mantua by the archduke Albert, who had witneffed his talents in the finithing of lome fine paintings defigned for his own palace. At Mantua he was re cived by the duke with the mont flattering marks of diftinetion, and had opportunities of improving himfe.if, which he did not neglect. Ifcre he carefully lludied the works of Julio Romano. He next vificed. Rome, where he had an opportunity of examiming the productions of Raslace. The paintings of Tidian and Pablo V $=$ onefe called him to Venice, where he in roved himself is the art of colourin! .

He continued in lyly fires yours. At length rese i ing intelligence that $\hat{i}$ is m thee was then ill, he ia end to Antwerp: but hi fits affection was not gratitice wite - Sos $^{1}$ it of haver; the dict before his arrival.

Hic married foo after; but his wife dying at the end of four years, he retired from Anwerp for forme time, and endeavoured to leoihe his melancholy by a journey to Holland. At Utrecht he vifited Hurtort, whom he greatly elleemed.

The fame of Rubens was now frread over Europe. He was invited by Mary of Medicis queen of Henry IV. of France to Paris, where he painted the galleries in the palace of Luxembourg. These form a feries of paintings which delineate the hiftory of Mary ; and afford a convincing proof low well qualified he was to excel in allegorical and emblematical compofitions, While at Paris he became acquainted with the duke of Buckingham, who was fo taken with his great talents and accomplishments, that he judged bim well qualified to explain to Isabella, the rife of Albert the archduke, the caufe of the mifunderllanding which had taken place between the courts of England and Spain. In this employment Rubens acquitted himelelf with fuch propriety, that Isabella appointed him envoy to the king of Spain, with a commiffion to propose terms of peace, and to bring back the inftuctions of that monarch. Philip was no left captivated with Rubens: he conferred on him the honour of kighthood, and made him fecretary to his privy council. Rubens returned to Bruffels, and thence paffed over into England in 1630 with a commiftion from the Catholic king to negociate a peace between the two crowns. He was fucceffful in his negociation, ard a treaty was concluded. Charles I. who then filled the Britilh throne, could not receive Rubens in a public character on account of his profeffion; ne-verthelefs, he treated him with every mark of reflect. Having engaged him to paint fome of the apartments of Whitehall, he not only gave him a handfome fum of money, but, as an acknowledgment of his merit, created him a knight; and the duke of Buckingham, his friend and patron, purchafed of him a collection of piclures, flatues, medals, and antiques, with the fum of 10,0001.

He returned to Spain, where he was magnificently honoured and rewarded for his fervices. He was oreated a gentleman of the king's bedchamber, and named fecretary to the council of fate in the Netherlands, Rubens, however, did not lay afide his profeffion. He returned to Antwerp, where he married a fecond wife called Helena Ferment, who, being an eminent beauty, helped him much in the figures of lis women. Hie died on 3 th May $16+0$, in the 63 d year of his age; leaving vat riches to his children. Albert his eldelt ion fuccecued him in the office of fecretary of fate in Flandens.

As Ru'üns was poffeffed of all the ornaments and advantages that render a man worthy to be efteemed or courted, he was always treated as a perfon of conequince. His figure was noble, his manners engaging, and his converfation lively. His leatrilig was univerfal. Though his favourite ftudy mut have occupied hin much, yet be found time to read the works of the moot celebrated authors, and efpecisilly the poets. He fpoke feveral languages perfectly, and was an excellent flatefman.

His hare at Antwerp was enriched with every thing in the arts that was rare and valuable. It contained. on $\cdot \mathcal{f}_{i}$ c ions apartment, in imitation of the rotunda it


Rubens. $\underbrace{\text { R- }}_{-1}$


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which he had purchafed in Italy; part of which he fold to the duke of Buckingham.

His genius qualifed him to excel equally in every thing that can enter into the compofition of a piefure. His invention was fo fertile, that, if he had occation to paint the fame fubject feveral times, his imagination always fuppliet him with fomething ttriking and ne... The aititudes of his figures are natural and varied, the carriage of the head is peculiarly gracefel, and his expreffion noble and animated.
He is by all allowed to have carried the art of colouring to its higheft pitch; he underitood fo thoroughly the true principles of the chiaro-fcuro, that he gave to his figures the utmolt harmone, and a prominence refembling reel life. His fencil is mellowed, his !eskes bold and eafy, his carnation glows with life, and his drapery is fimple, but grand, broad, and hung wilh much ikiil.

The queat excellence of Rubers appears in his grand compoftions: for as they are to be viewed at a diflance, he laid on a proper body of colours with uncommon boidncis, and fixed all his tints in their proFer places; fo that he never impaired their lufte by brenking or torturing them; but touched them in fuch a manner as to give them a lafting foree, beauty, and harmony.

I is generally allowed, that Rubens wanted correchnefs in dratring and defigning; lome of his fisures being heavy and too thort, and the limbs in fome parts not being juatly \&etched in the outline. Though he had fpent feven years in Italy in fudying thofe antiques by which other celebrated artifts had modelled their tafe; though he had examined them with fuch minute attention as not only to perceive their teauties, but to be qualified to defcribe them in a Difertation which he wrote on that fubject : yet he feems never to have divefted himfelf of that beavy fyle of painting, uhich, being peculiar to his native country, he had inferfithly acquired. The aftonifhing rapidity too with which he painted, made him fall into inaccuracies, from which thofe works that he finifhed with care are entirely exempted.

Among his finihed pieces may be mentioned the Crucifixion of Jefus Chrift between the two Thieves, which was very lately to be feen at Antwerp; but of all his works the paintings in the palace of Luxembourg beft difplay his genius and his fyle.
It is the obfervation of Algarotti, that he was more moderate in his movements than Tintorelto, and more foft in his chiaro feuro than Carravaggio ; but not fo rich in his compofitions, nor fo light in his toucles, as Paolo Veronefe; in his camations lefs true than Titian, and lefs delicate than Vandyck. Yet he contrived to give his colours the utrooft tranfparency and harmony, notwithflanding the extraordinary deepnefs of them; and he poffeffed a ftrength and grandeur of fyle which were entirely his orm.

RUBIA, MADDER; a genus of plants belonging to the tetrardria clafs; and in the natural methed raviking under the $47^{\text {th }}$ order, Stellata. See Botany Index; and for an account of the ufe of madder as a dye fluft, fee Dyeing Inder.

Madder-root is alfo ufed in medicine. The virtues attriluted io it are the'e of a detergent and anerient; whence it has teen wally ranlied amony the e. cning
roots, and recommender in obltructions of the rifcera, particularly ot the kidn ys, in coagulations of the blood fiom falls or bruiles, in the jaundice, and beginning dropfies.

This root, tak $\cdot n$ internally, tinges the urine of a deep red colour; and in the Pinlofophical Trantactions we have an ac-ant oi its producirg a like effect upon the bones of mimals who had it mixed with their food: all the bones, particulialy the more fulid ones, were faid to bechaiged, both externally and internally, to a deep red ; but neither the fleftyy nor cartilagincus parts luffered any alcerations: fome of thefe bones macerated in water for many weeks together, and afterwards feeped and boiled in fpirit of wine, loft none of their colour, nor communicated any tinge to the linvors. This root, therefore, was cincluded to be poffeffed of great fubtility of parts, and its medical virtues honce to deferve isquiry. The fame trials, however, m : de by others, have not been found to produce the fame effeets as thofe above mentioned.-Of late the root has come into great reputation as an enimenagogue.
RUBININSKA, onc of the notthern proxinces of Ruffia, bounded by the province of Divina on the north, by Syrimes on the eaft, by Belew ra on the fouth, and by the lake Onega on the welt.
RUBRIC, in the cavon law, fignifies a title or article in certain ancient law-bocks; thus celled bccaufe written, as the tithes of the chapters in our ancient bibles are, in red letters.
nUBU'S, the Rr.inmis, or Rafplerg-luf ; a genus of plants belonging to the icolandria clats; and in the natural method rarking under the 35 th order, Sentic.fe. See Botany Indea. The principal fpecies is the common ralpberry, which, with its varietics, demands culture in every garden for their fruit ; particularly the common ref kind, white fort, and twicebearing ra?pberry; all of which are great beaters: but for the gereral plantations, we choofe primcipally the common red and the whi.e kind, as being generally the greateft bearers of all ; planting alfo a hare of the twice-bearing fert, both as a curiofity and for the fake of its autunmal crops of fiuit, which in favourable fealons ripen in tolerable perfection; oblerving to allow all the forts fome open expofure in the kitchen garden, though they will proferer in almoft any fituation.

The other fpecies are confidercd as plants of variety, for hardy plantations in the flerubbery. Some of them are alfo very ornamental flowering plants; particularly the Virginizn flowering rafpberry, and the double-bloffomed bramble, which anfwer well for ornamental compartments; and the white-berried bramble, which is a great curiofity. All the other fpecies and varieties ferve to diverfify large collections.

RUBY, a fecies of precious ftone, belonging to the f.liccous genus. See Mineralogy Index. The ruby is of various colours; as, of a deep red colour inclining a little to purple; the co:buncle of Pliny; the fpinell, of the colour of a bright corn poppy flower; the balafs or pale red inclining to vio'et. Tavernier and Dutens inform us, that in the Eaf Indies all coloured gers are nomed rubies, without regard to what their colours may be; and that the particular colour is added to the name of each in order to diftinguif thens from one another. The fpinell rubies are about half the value of diamonds

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of the fame weight; the balafs is valued at 3 ว fhillings per carat. Taversier mentions 108 rubies in the throne of the Great Mogul, from 100 to 200 carats, and of a round cne almult $2!$ ounces: there is alfo mention made by other travellers of rubies excceding 200 carats in wisight. According to Ditens, a perfect ruby, if it weigh more than $3 \frac{1}{2}$ carats, is of greater value than a diamond of the fame weight. If it weigh one catat, it is worch 10 guineas; if two carats, 40 guineas ; three carats, 150 guineas; if fix carats, upwards of 1000 guineas.

Rubies, it is faid, are artificially made from Brafilian topares of a fmoky appearance, by giving them a gradual heat in a crucible filled with alhos, until it be red hot.

Rock RUB ? , the amelhystizontas of the ancients, is found in Syria, Calcutta, Cananor, Cambaya, and Ethiopia. It is the moft valued of all the varieties of garnets, and is irequently fold as a ruby under the name of tribiates Rufitum.

RUC'IATION, a ventofity arifng from indigeftion, and difcharging itfelf at the mouth with a very difagreeable noile.

RUDBECK, Olaus, a learned Swedif phyfician, born of an ancient and noble family in 1630 . He became profefor of medicine at Upfal, where he acquired great applaufe by his extenfive knowledge ; and died in 1702. His principal works are, 1. Exerculatio anatomica, exhibens diaitus novos hepaticos aquojos, et vafa glandularum ferofa, in 4 to. He there alferts his claim to the difcovery of the lymphatic vefiels, againf the pretenfions of Thomas Bartholin. 2. Athlantica, five Mankeim, vera Japheti poferorum fedes ac patria, 4 vols folio, is full of itrange paradoxes fupported with profound learning: he there endeavours to prove, that Stweden was the country whence all the ancient Pagan divinities and our firft parents were derived; and that the Germans, Englifh, French, Danes, Greeks, and Romans, with all other nations, originally came from thence.

RUDBECKIA, a genus of plants belonging to the fyn, enefia clafs; and in the natural method ranking under the 49th order, Compofilie. See Botany Index.

RUDDER, in Navigation, a piece of timber turning on hinges in the fern of the fhip, and which, oppofing fometimes one fide in the water and fometimes another, turns or directs the veffel this way or that. See Helv.

In the feventh volume of the Tranfactions of the Society indituted at London for the Encouragement of Arts, Manufactures, and Commerce, there is explained 2 method of fupplying the lofs of a chip's rudder at fea. The invention, which is Capt. Pakenham's of the royal navy, has been approved by Admiral Corawallis, the commilioners of the admially, by the fociety in whofe tranfactions the account of it was firft publithed, and who prefented to Capt. Pakenham their gold medal, by the Trinity-houfe, by the managing owners of Ealt India fhipping, by the duke of Sudermania then regeat of Sweden, and by the fuciery for the improvement of naval architeeture. The fublitute here recommended for a loft rudder, fays the inventor, is formed of thofe materials without which no fliz; goes to fer, and its comfruction is fimple and fpeedy. Cip'. Pake.'iam, however, did not give a particular accouni of his inven-

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tion to the fociely whom he addrefied, and to whom be fint a model of nis invention, till fuch time as he had an opportunity of recuicing the theory be had conecived to practice. On the 7 th of July 1783, he made this twal with the MIerlin of Newfurndiend ; and he declares that, during the different manocuvres of tacking and wearing, be could not di cover the lealt variation bes tween the operation of tle machine and that of the thip's rudder: the wais feered with the flume eale by one man, and anfwered the helm in every fituation fulity as quick. Admiral Cornwallis certifies the lame vith rerpect to the Crown oi $\sigma_{\ddagger}$ guis, which lott her rudder on the Kentih Knock, when with the lubllitute the was fteered to Portimou h with the utnoft cafe in a heavy gale, and, as the adnuiral afferts, it would have taken her to the Eafl Indies.

The materials and contruction are thus deferibed in the Tranfactions. "N $\mathrm{N}^{0}$ 1. a topmall inverted; the fidhole to thip the tiller in, and fecured with hoaps from the anchor flocks; the heel forming the head of the rudder. $\mathrm{N}^{\mathrm{o}} 2$. The inner half of a jibb-boom. $\mathrm{N}^{\circ} 3$. The outer half of a jibb-boon. $\mathrm{N}^{\circ} 4$. A filh: the whole of thele materials well bolted together:-in a merchantman ber ruffitree. $\mathrm{N}^{\circ}{ }_{5}$. A cap, with the fquare part cut out to fit the ftern-poft, and acting as a lower gudgeon, fecured to the ftern-poit with hawfers, leading from the bolts of the cap, under the flip's bottom, into the hawfe-holes, and hove well tort. $\mathrm{N}^{\circ} 6$. A plank, or, if none on board, the fhip's gangboards. $\mathrm{N}^{\circ} 7$. Anchor-focks, made to fit the topmaft as partners, fecured to the deck, and fupplying the place of the upper gudgeon, and in a merchant flip the clamps of her windials. $\mathrm{N}^{\circ} 8$. A flern-poft. $\mathrm{N}^{3} 9$. Hoops from the anchor-ftocks. $\quad N 010$. Pigs of ballefl, to fink the lower part. The head of the rudder to pals through as many decks as you wih."
On this the Captain makes the following remarks: " It might probably be fuppofed, that a difficulty would occur in bringing the jaws of the cap to embrace the ftern-pott ; but this will at once be obviated, when it is remembered that the top chains, or banfers, leading from each end of the jaws, under the hlip's bottom, are in fact a continuance of the jaws themfelves. Nor can it be apprelended that the cap, when fixed, may be impelled from its fation, either by the cfiorts of the fea, or the courfe of the fhip through the water, thoug ${ }^{3}$ even the haw fers, which confine it in the firft inllance, fhould be relaxed:- the experiment proves, that the partners muft be firlt torn away, or the main-piece broken off.
" Since the improved fate of navigation, notwithftanding remedies have been found in general for the moft difaitrous accidents at fea, expericnce has evinced that nothing complete had been hitherto invented to fupply the lofs of a rudder. The firt exped: nt witlin my knowledge were cables yeered aftem, with tackles leading from them to the fhip's quarter. This praciice was fuperfeded by the invention of the machine ufunlly called the Ipf wiwh wacline; but tic comptruction of it is complex and unwielly, and vefiels are feldom found in pofieffion of the materials which form it. Commodore Pyron, in the sournal of his Voyage round the World, fays, that the Tamer, vith every affitsuce frota his own Thip, was five days in confructing it. Defides, like the before-mentiored cheme, it can orly" njeratc to fleer a $\mathrm{U}^{\mathrm{H}}$

Plate cectavis

## R U D

Rulter, faipp large (axd that but very widdy), and of courfe, $\underbrace{\text { Rudimane }}$ under the circumfance of a les-ftore, defiat the moth frilful exertions of a feaman. Several ather expedienis bave been adopted, which I thall not mention heit, as the fame defects equally appear in all.
"Thus it was aypar*nt, that $m_{i}$ le room was lef: for the difcowery of fome more certain refource that any of the former; and the fcbeme which has liuggeited i.icif to me, will, I irult, be found fuity io antier time purpofe intended. The materials are fith as fearcely any thip can ventare to fea wihout; and the conltruction fo fpeedy, eafy, and fimpie, that the capaci'y of the meaneft failor will at once conceive it. 1 ned not, from mathematical principles, Row the certainiy wits effect, as it is formed and managed in the lime manier as a flip's common rudder : and as the common rudder is certainly of ail inventions the beil calculated for guiding a vefel through the water, it will of courie follow, that whatever fubflitute the nearell refiembles that, muil be beft adapted to fupply its lofs."

RUDDIMAN, THosias, one of the molt eminent granmarians which Scotiand has protuced, was born in Ottober $167+$ at Raygel, in the parith of Borndie and county of Banff. His father J.m's Reduinan was a farmer, and fltongly atlached to the houfe of Stuart.
Rr Ruddinan was infrueted in the principles of Laen gramonar at the parilh-fchool of Buyndie, where his application was fo vigorons, and his proz rels fo rapid, that he quickly furpated all his clafs-ftllows, His mafter George Morrifon, who wis a filiful and attentive teacher, being unvilling to chock his ardour for learming, permited him to follow the impulfe of his gesius, and to advance without wating the flow progiefs of the other boys.

The pleafure w' ich the youthful mind receives from vivid defcription, though wild and romantic, appronches to ceftafy, and often makes an imprefion which remains indelible. While at fchool, the firt book which rlarm ed the opening mind of Ruddiman was Ovid's inctamorphofes; nor did he ceafe to relith the beauties of this author when his judsment was mature, for during the reft of his life Orid was his iavourite poet.

At the age of fixtcen he became anxious to purfue his fudies at the univerfity; but his father thinking him too young, oppofed his inclination. Hearing of the competition trial, which was annually beld at King's college, $A$ berdeen, for a certain number of burfaries on the foundation of that univerfity, Ruddiman's ambition was kindled. Without the knowledge of his father, and with only a fingle guinea in his pocket, which his filter had privately given him, he fet out for that phace. On the road he was met by a company of gypfeys, who robbed him of his coat, his fhoes, his flockings, and his guinea. This misfortune did not damp his enterpriing fpirit: He continued his journey to Aberdeen, prefented himfelf before the profeflors as a candidate; and though he bad neither clothes to give him a decent appearance nor friends to recommend him, he gained the firf prize.

Ater attending the univerfity fonr years, he obtained the degree of mafter of arts; an honour of which he was almays proud. The thefis fays, the difputation on this occafion lafted ab aurora u/que nd viferam, i, e. " from morning till night." Though Ruddiman was only 20
years of age rwben lie left the univerfity, it appents frama Ru than $2 n$. a Book inviled Rhictorivorum Litrs tres, cofapo cd be- -ufire this perivad, but never priblifice, that be had then read the Roman clatics with uikommon attention aud advantage.

He was foon afier engaged as a tutor to the foir of Rubert Young, Eif. of Auidbar, the great grandion of Sir Peter Young, who under the direction of Buchanant had been preceptor of James VI. His incoma here mulf have been very fimall, or bis fituation unplealaut ; fur within a year he accepted the othice of fchuolmafter in the parilh of Laurencekirk. The profeflion of fchoolmatier in a country parihih at that period could open no field for ambition, nor prolpect of great emolument; fur by an act of parliament paffed in $16_{33}$, the iatary appropriated to this office could not be increaled above 200 morks Scots, or 121. 2: $2_{2}^{2}$ d. theriing. In dicharging the duties of this humole but inporant fation, it is probable that he uied Simifuis's Rudincria Ciramomatica, which was then genera'ly taught in the noribern tchools. and by which he bimiel! had been inuruated in the principles of La'in grammar.
When Ruddiman had ipent three years and a half in this employment, the celcerated Dr Pitcaine bappening to pafs through Latetrockirk, was detained in that vitlage by a violent ilorm. Piicairne wanting annuement, inquired at the boitefs if the could procure any agreable companion to bear him company at dinner. Sie replice, that thic frioolmafter, though young, was faid to be learnod, an:d, though mude.t, hie was fure could talk. Pitui ine was delighted with the converiation and learning of his new companion, iusited him to E linburgh, and prozailid him lis pationage.
When Rudeiman arrived in Edinburgh, the advocates library, which lad been founded 18 years before ly bir George Mackenzie, attmeted his curiofity and attention, and he was foon atier appointed affinkunt-keeper undcr Mr Spottifwoode the principal librarian. His falary for execuling this laborious cffice was 81. 6s. S.d. He had befides a fmall honorary prefent from thofe who were admitted advocates for correcting their thefes: he was alio paid for copying manuferipts for the ufe of the library. And the facully, before he had held the office two years, were fo lis hly pleafed with bis condue, that they made him a prefent of 50 puands Scuts, or 41.3 s . 4 d . Aterling.

During the fiting of the court of feffion he attended the library from ten till three. But this confinement did not prevent him from engaging in other laborio:s duties: A part of his time was occupied in teathing young gentlemen the Latin language. Some he at:enaled at their lodgings, fome waited upon him, and fome refided in his orn houfe. An exact litt of the names of thofe who attended him, exprefing the date of their entry, and the fums which be was to receive from eash, his been found in lis packel-book; a curions selick, which is nill preferved.

When Ruddiman's merit as a fcholar lecame better known, his afriance was anxiounly folicited by thofe who were engaged in literary publications. Freebaisre, a ref ectable bookfeller of that period, prevaited upon him to correct and prepare for the pris Sir Fobert Silbald's Introductis ad hi forinm rerum à Romanis getigarum in ca Borcalis Brisamnia parie qua whita mbunn Picticum ofl. He reccived for his labour 3l. deriirg.

Kuidionsti. At the requeft of Mcr Spotifirobde litorazian, for 57. fterling he comtributed his aid to the pabification of Sir Rubert Spotilisoode's Pracidques of the Larss of Scotland.

In 170\% he commenced antionecr, an employment not very foitable to the dignisied character of a man of letters: but to this occupation he was probably impelled by necuffity; for upon balancing his accounts at the end of the preceding year, the whole furplus was 281. 25. with profpects of 2361.75 s. 6\%. Scots. Ruddiman had a family; and feems to have been a flranger to that foolifh pride which has ficduced fome literay men into the opinion, that it is more honourahle to tlarve than have recourfe to an occunation which men of rank and orulence are accultomed to defpife. The fame year he ppublifised an edition of Volufeni de Animi TranquilRitate Dialgats, to which he prefixed the life of Volafenus. Volutenus or Wilion was a learned Scotfman, and had the honour to be patronifed by Cardinal Wolley (fee Wilson). In ryon he publified Johnfoni Cantici Solomozis Parephrafis Pbetica, and Johnfori Cantica with notes, which he dedicated in verfe to his friend and patron Dr Pitcairne. The edition confifted of 200 copits. The expence of printing smounted to gl. 10 s . fleting, and he fold them at a fhilling each cony.

The phillolngical talents of Fuddiman were next direeted to a more inmportant object, in which they became more confpicuous and ufful. Freebairne the bookfeller propofed to publifh a new edition of the Scottifh tmarfation of Cirgil's Æeneid by Garrin Donglas bithop of Demkeld. Of the contributions which fome eminent characters of the age prefented, the moft raluable were fupplied by Ruddiman. Freebairne acknowledged in general terms this obligation, but has not done him the juftice to inform the reader what thefe valuatle contributions were, and Ruddiman's moderty refrained him from publicly afferting his claim. From the pocket-book which has been already mentioned, it appears that Ruddinian corrected the work and moote the gloffary; and there is ffrong reafon to believe that he was the author of the 42 general rules for aflifting the reader to underland the language of Doiglas. 'To thofe who wifh to be acquainted with the ancient langruage of this ifland, the uncfiary will be a trealure, as it forms a compendious dictionary of the Anglo-Saxon. For this elaborate work Ruddiman was allowed 81. 6 s . Sd. ferling.

The reputation of Ruddiman had now extended to a diffance. He was invited by the magiftrates of Dundee to be rector of the grammar fchool of that town; but the faculty of advocates, anxions to retain him, augmented his filary to zol. 6 s .8 d. ferling, and he declined the offer.

In 17 II he affited Pifbop Sage in pubilifhing Drummond of Haxthotuden's works; and performed the fame favour to Dr Ahercrombie, who was then fleparfrig for the prefs his Marial Atchievements.
 On this occafion he tefified all the refpeet which friendniip could infirice to the memory of his deceafed pation and lurviving formily. He compofed liteaime's cpittaph, and conducted the fale of his library, which was difpofed of to Peter the Great of Rulfia.

In 17 If the Rudinents of the Latin tongue were publifhed. Eighteen or nineteen Latin grammens, compofod by Sco:climen, had appeared before this period; yet luch is the intrinfic value of this little treatife, that it foon fupericided all other boaks on the fubject, and is now taught in all the grammar fchoois in Seoland. It has alfo been tranflated into other lenguages.

He was next called upon to publifh the works of Buchanan. The value of thefe he enherced musin by an elaborate preface, his Tabula Rccum Scorie Chronologica and Propriorum Nominum Interpretatio. The interpretation of proper names mas highiy requifite; foi Buchanan has fo difguifed them in the Roman drefs, that the original name is fearcely differnible; and the preface puts the reader on his guard againit the chronological errors and fagtious fuirit of the hiftory. Ruddiman allo added a learned differlation, intitled De Bletris Buckanarceis Libcllus, and fabjoined annotations critical and polrical on the Hiftory of Scotland. As he efpoufed the caule of Queen Mary, he raifed againft himpelf a hoft of enemies, and save ocenfien to that celebrated controverfy which has bern carried on with much keennefs and animotity, and wih little intermifion, even to the prefent times. Fur this work Ruddimaa was promiled fol. fterling.

He had now been fo long accuftomed to fuyerintend the prefs, that he was led to form the plun of erceling a printing-effice bimfelf (A). Accordin, ly, in the year 1715 , he commenced printer in partherfhip with his brother Walter, who had been regularly tred to the bufinefs. Some ycars after he was anpointed printer to the univerfity, along with James Davidfon bookfeller.

The firf literary fociety formed in Scotland was innituted in the year 1718. It probably derived is origin from the factious and turbulent fpirit of the times. The learned, anxious perhaps to find fone refpice from the political diffenfions of the day, endeavoured to procure it in elegant amulement; for one of the fundamental articles of the new affociation was, that the "affairs of church and flate fhould not be introduced." Ruddiman and the mafters of the high. fchool had the honour to found this fociety. They were afterwards joined by Lord Kaimes.

In 1725 the firf part of his Grammotice Latina Innitu:imes, which treated of etymolo., was publilhed. The fecond part, which explainel the nature and princinles of fyntax, appeared in 173 I . He allo wrote a third part on profody, which is faid to be more copious and correct than any other pablication on the fihtiect. When urged to give it to the public, he faid dryly, "The age has fo little tafte, the fale would not pay $\mathrm{U} \mathrm{u}_{2}$
(A) It has long been an objeit of curiofity to afcertain the time at which the art of printing wat introduced into Scotland. Mrf Roberifon, the late keeper of the records, difoovered a patent of King Janies 1 V . which renders it certain that a printing-prefs wes firf eftablifhed at Edinburgh during the year $150 \%, 30$ years after Caxton had brought it into England. See Prinping.

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Ru:diman, the expence." Of this work he publifited an abridgement, to which he fubjoined an abdtract of lis profody.

Ruddiman next engaged in the management of a neswfpaper, an employment for which his genius and indeftry feemed to render him well qualified. But thofe who should expect either much information or amufement from this publication, would perbaps be greatly difappointed. The newfpaper which he conducted was the Caledonian MLercury, and was eflablifhed in 1720 by William Roliand a lawyer. Ruddiman acted only in the capacity of printer for five years; but upon the death of Mr Rolland in 1720, the property was transferred to him, or to his brother Walter and him conjunctly. This paper continued in the family of Ruddiman till the year 1772 , when it was fold by the truftees of his grandchildren.

The Caledonian Mercury was at firl printed three times a week, on Monday, Tuefday, and Thurfday, in a fmall 4 to of four pages, with two columns in each page, and 50 lines in each column; fo that the whole paper contained only 400 lines. It now contains in its folio fize 2480 lines.

Mr Ruddiman, after the death of Mr Spotifivoode librarian, remained for fome time in his former ftation; but was at length appointed keeper of the library; though without any increafe of falary; and fome vears after Mr Goodal, the deferder of Queen Mary, fucceeded him in the office of fub-liorarian.
The affiduous application of Ruddiman, fupported by fuch learning, was intitled to wealth, whicb now indeed flowed upon him in what vaas at that period deemed great abundance. On the firft of October ${ }^{1735}$, it appeared frem an exact flatement of his affairs, that he was worth 1882 l . 5s. 2d. ferling; and on the 20th of May, the enfuing year, his weal th hadincreafed to 19851 . 6 s . 3 d. ferling. In 1710 he valued his effects at $2 \boldsymbol{q}^{1}$. ${ }^{1} 4$ s. 9 d ferling.

In 1737 the fchoolmefters and teachers in Edinburgh formed themfelves into a fociety, in order to eftablifh a fund for the fupport of their wives and children. Of this fcheme Ruodiman was an active promoter, and was chofen treafurer. Perhaps it was this affociation which in 1742 gave the idea to the Scots clergy of forming their widows fund.

In 1739 he publifhed Selectus Diplomatum et Numifmatum Scotice Thefaurus. This work was projected and begun by Anderfon (hence called Andorfon's Diplomata), but was finihhed by Ruddiman. The preface, which is an excellent commentary on Anderfon's performance, was written by Ruddiman, and difplays a greater extent of knowledge than any of his other productions.

As Ruddiman had imbibed from his father thofe political principles which attached him to the family of Stuart, he probably did not remain an uneonicerned Spectator of the civil commotions which in 1745 agitated Scotland. He did not, however, take any active part in the rebellicn. His principles, he has been heard to fay, induced him to be a quiet fubject and a good citizen. He retired to the country during the fummer of 1745 ; and while his fellow-citizens were fpiling each others blood, he was more happily cugaged in writing Critical Obfcrvations on Burman's Commentaries or Lucan's Pharfalia, The Caledonian Mercury was in
the mean: time marked with a jealous eye. Mis fon, Ruddiment whohad for fome time been the principal manager of that newfpaper, having copied a paragraph which was reckened feditious from an Englifh paper, was impaifoned. The folicitation of his father procured: his releafe: but it was too late; for the inhappy young man had contracted a difemper in the tolboath of Edinburgh which brought him to his grave.

During the laft feventeen years of his life Ruddiman: was almoit inceflantly engaged in controverfy. To this he was in fome meafure compelied by the violent attacks which fome critics of the times had fuccefinely made upon his works. He was firft called upon by Benfon, auditor in the exchequer, to determine the comparative merit of Buchanan and Johnfon as poets. He gave a decided preference to Rochanan in perfpicuity, purity, and variety of flyle; but; like a candid critic, allowed Johnfton to be fuperior in the harmony of his nurabers. His next antagonitt was Logan, one of the minifters of Edinburgh, a weak illiterate man, but an obftinate polemic. The fubject of contelt was, whether the crown of Scotland was itrictly hereditary, and whether the birth of Robert III. was legitimate? Ruddiman maintained the affirmative in both points, and certainly far furpaffed his antagonit in the powers of reafoning. He proved the legitimacy of Robert by the public records of the kingdom with a force of argument which admits of no reply; but in difcuffing the firft queftion (by which he was led to confider the conteft between Bruce and Baliol) he was not fo fucceffful: for there are many inflances in the hiftory of Scotland in which the brother fucceeded to the crown in preference to the fon. He fhowed, however, that the Scottilh crown was at no period properly elective; and that, according to the old licentious conftitution of the kingdom, the right of Bruce, who was the neareft in blood to the royal flock, was preferable to the claim of Baliol though defcended from the eldeft daughter.

But the labours of Ruddiman did not end when the pen dropt from the fecble hand of Logan. He was foom called upon to repel the attacks of Love fchoolmafter of Dalkeith, who maintained, in opfofition to him, that Buchanan had neither repented of his treatment of Queen Mary, nor had been guilty of ingratitude to that princefs. That Buchanan ever repented there is reafon to doubt. Whether be was guilty of ingratitude, let the unbiafled determine, when they are affured by authentic records that Mary conferred on him a penfion for life of 500 pounds Scots.

When Ruddiman had arrived at his eightieth year, and was almolt blind, he was alfailed by James MIan, maller of an hofpital at Aberdeen, with a degree of rancour and virulence, united with fome learning and ability, which muft have touched him in a fenfible manner, and alarmed his fears for his reputation after his deceale. He was called a finifbed pedant, a furrious calumniator, and a corrupter of Buchanan's works. The vencrable old man again put on his armour, entered the lifts, and gained a complete victory. Man, with all his acutenefs, could only point out twenty errors in two folio volumes. Some of thefe were typographical, fome triiling, and fome doubfful. Ruddiman, with much plcafantry, drew up againft Man an accounf of 469 errors, confifting of 14 asticles, of which two or three may be produced as.a fiscimen. I. Falfelioods and prevarications,

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Ruddimah, varications, 20. 2. Abfurditiesy 69. 3. Paffages from Rudeheym. Clatic authors which were'mifunderfload by Man, 10. The triumph which he gained over this virulent adverfary he did not long enjoy; for he died at Edinburgh on the 19th of January 1757 , in the 83 d year of his age, and was buried in the Grey Friars churchyard without any monument to diftinguifh his grave.

He was three times raarried, but left behind him only one daughter, Aiffon, who was married in 1747 to James Stcwart, Efq. He is fuppofed to have died worth 30001. fterling.

He was of the middle fize, of a thin and ftraight make, and had eycs remarkably piercing. Of his talents and learning his works afford the moft fatisfactory proofs. His memory was tenacious and exact. He could repeat long paffages of his favourite poet Ovid, to the amount of 60 lines, and without omitting a word. He was fo great a mafter in the Latin language, that he has perhaps been equalled by nonc fince the days of Buchanan.

Fuddiman has left a character unflained by vice, and diftinguifhed by many virtues. His picty was exemplary. He fpent Sunday in religious employment; and we are informed had prayers read to him every morning by his amanuenfis when the infirmitics of age required fuch an affitant. He was fiugal of his time, neither indolent nor fond of amufement; and foremarkably temperate, that it is faid be was never intoxicated. Though often forced into controverly, and treated with infolence, he never defcended to fcurrility and abufe, nor cherifhed refentment againft his enemies. His candour was much admired in one inflance in the favourable chasacter which he pabliked in the Caledonian Mercury of his antagonift Love (B), after his deceafe. Upon the whole, it mut be allowed that Rucdiman has been of great fervice to clafical literature, and an honour to his native country.

RUDESHEIM, a rich village of the Rhinegau, fituated about five miles from the city of Mentz, contains nbout 2500 inhabitarts. The wine of this place is looked upen as without comparifon the belt of the Rhinegau, and coniequently of all Germany. Baron Fierbeck fays, he found it much more fiery than that of Hochheim; but that for pleafantnefs of tafte there is no comparifon betwixt them. The beft Rudeheim, like the beft Hochheimer, fells upon the fpot for three guilders the bottie. "You can (fays our author) have no tolerable wine here for one guilder, nor any very good for two; at lealt I fhould prefer the worf Burgundy I ever tafted to any Rudefheimer I met with either bere or at Mentz for thefe prices. Indeed the wine of our hoft (a rich ecclefiafic) was far better than any we could get at the inn. It ftands to reafon, that the fame vintage furnithes grapes of very different degrees of goodnefs; but befides this, it is in the Rhi-
negaa as every where elfe. The beft wines are genc-Ruteffeis 1 rally fent abroad by the podr and middlling intrabitarits, and the worft kept for internal confumption; for the espence of the carriage being the fame in both cafes, ftrangers had much rather pay a double price for the good than have the bad. It is only rich people, fach as our hoit was, who can afford to keep the produce of their land for their own drinking. Upon this principle, I have eaten much better Swifs cheefes out of Switzerland than in it, and have drank much better Rhenifh in the inns of the northern parts of Germany than in the country where the wine grows. The pofition of the country alfo contributes to render the wine dearer than it would otherwife be. As the beft wine grows in its more northern parts, the ealy tranfport by the Rhine to Holland, and all parts of the world, raifes its price above its real value. The place where the flower of the Ruderheim wine grows is precifely the neck of the land, formed by the winding of the Rhine to the north, after it has run to the weftward from Mente hither. This neck, which is a rock almoft perpendicular, enjoys the firft rays of the rifing and the laft of the fetting fun. It is divided into finall low terraces, which are carried up to the utmoft top of the hill like fteep ftairs; thefe are guarded by fmall walls and earthen mounds, which are often wafhed away by the rain. The firf vine was brought hither from France, and they ftill call the beft grape the Orleannois. They plant the vine flocks very low, fcarce ever more than four or five feet high. This ray of planting the vine is favourable to the production of a great deal of wine, but not to its goodnefs, as the phlegmatic and harli parts of it would certainly evaporate more, if the fap was refined through higher and more numerous canals. This is undoubtedly the reafon why every kind of Rhenifh bas fomething in it that is harh, four, and watcry. The larveft of the beft vineyards, which are the lower ones, in the above-mentioned neck of land, is ofien bought before-hand, at the advanced price of fome ducats, by Dutch and other merchants. It muft be a very rich fock to yield above four meafures of wine.-You may eaflly imagine, that the cultivation of vineyards muft be very expenfive in this country, as the dung, which is extremely dear, muft be carried up to the top of the mountains on the peafants floulders."

RUDIMENTS, the firf principles or grounds of any art or fcience, called alifo the elements thereof.

RUE. See Ruta, Botany Index.
Rue, Charles de la, a French orator and poet, was born at Paris in 7643 . He waseducated at the college of the Jefvits, where he afterwards became a profeffor of humanity and rhetoric. $\Lambda t$ an early age his talent for poetry difclofed itfelf. In 1667 , when he was only 24 years old, he compofed a Latin poem on the conqueits of Louis XIV. which was fo much efteemed by

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the celerated Peter Corneille, that he tramited it into Firench, prefented it to the king, and at the fame time palfed fo high encomiums on the frperior merit of the original, that the author was received into. the favour of that monaach, aud ever after treated by him with fingular refpect.

De la Rue, anxious to preach the gofpel to the $\mathbf{C a}$ nadians, requefted leave of abfence from his fuperiors; but having deftined him for the pulpit, they refufed to comply with his requef. Accordingly be commenced preacher, and became one of the moft eminent orators of his age. In his difcourfes he would probably have been too laviih of his wit, if he had not been cautioned againft it by a judicious courtier. "Continue (faid he) to preach as you do. We will hear you with pleafure as long as you reafon with us; but avoid wit. We value the wit contained in two verfes of a fong more than all that is contained in moft of the fe:mons in Lent."

Refpecting the delivery of fermons, he enterlained on opinion quite oppofite to the eflablificd practice of his countrymen. In France it was cuftomary not to read fermons from the pulpit, but to recite them from memory. This he confidered as a laborious tafk, not compenfated by any advantages. On the contrary, he was of opinion that reading fermons was preferable.The preacher, with his difcourfe before him, could read it with eafe, free from that timidity and embarraffiment which frequently attends the act of recollection; and he would fave a confderable time which is ufually fent in committing it to memory. In thefe fentiments many will not be difpofed to acquiefee: but, without pretending to determine the queftion, it may be afferted, that a fermon, whether read or recited, if fpoken in a ferious manner, and with proper intections and tones of voice, will produce all the effects for which a fermon is calcuiated.

De la Ruie died at Paris on the 27 th of $\operatorname{Mry} 1725$, at the age of 82 .

He was as amiable in fociety as he was venerable in the pulpit. His converation was plearant and infructive. His tafte and kno ledge enabled him to converfe with enfe, and to exprefs himfelf with propriety on every fubject. He charmed his fuperiors by his wit, and his inferiors by his affa lity. Though living amidt the buflle of the world, he was always prepared for the fo. litude of tiec clufet and the retreat of the cloikter. In the pulpit he pouzed forth the fineft cffufions of elopitenre in the moft animated and impreffive manner.He pu' lihised Panegyrice, Funeral Orations, and Ser$\mathrm{m} \cdot \mathrm{ns}$. His beft fermon is that intitled Des Calamites's Publiquer, and his moft admired funeral oration was comp id on the Prince of Luxem bourg. There are alo tragedies of his writing, both in Latin and French, which were anarnved by Corncille. He was one of thofe who publifuel editions of the clafics for the ufe of the Dauphin. Virgil, which fell to his fhare, wes publifined with notes, and a Life of the Poet, in 1675 , 440 , and is a valuable and ufeful edition.

RUELLIA. a genus of plants Lelonging to the dilynamia clafs; and in the naturst me hod ranking under the 40 h oider, Perfinata. See Botany Inder.
fuff, a fecies of Perea. Sce Ichthyolog Ind $x$.

Rutf, a Species of Tringa. See Orkitholegy Index.
 Majeny's balier in Piccadilly; who buying a luttery lichet for him in lis infuncy, rlich haprened to be drawn a prize of 5037 . this fum was applied to ciucato hire for the law. He acco:dingly entered in the Middle Temple; and lecunded fo well tire viens of tis father, that he became a gond feholar and ani acute barrifter. While he was nating for opporterities to difinguifh himfelf in his profelfion, he wrote a variety of pamplilets on the politics of the day; and was aftervarc. diffinguithed by lis accurate edition of The Statutes at Large, in 4 to. He now obtained good bulinefs, though more an a chamber counfellor in framing bills for parliament than as a pleader; but his clofe application to fudy, with the variaty of works be engaged in as an atthor, 'o impaired his conltitution, that after the lat exertion of his abilities to defend the conduct of adm:riftration toward Mr Wilkes, by a pamphlet intitied, "The Cafe of the late clection for the county of Middlefex confidered," he was presented from receiving the reward of a place in the Treafury, by dying in 1760 , at about 46 ycars of agre. Some time before his death, Bithop Warburton engaged him to write his long promifed Life of Alexander Pope; which, however, when execuled, was very far from giving general fatisfaction. The author attributed his ill furce's to the deficiency of his materials; while the public feemed rather to be of opinion that, as a latyer, he ventured begond his froper line, when he affumed the tafk of a critic in poerry.

RUFFLING, or Rurfing, a beat on the drum. Lieutenant-generals have three ruffles, major-generals two, brigadiers one, and governors onie, as they pals by the regiment, guard, \&c.

RUFINUS was born about the midd? of the fourth century at Concordia, an inconfiderable town in Italy. At firt he applied himfelf to the belles lettres, and particularly to the fudy of eloguence. To accomplifh himfelf in this elegant art, he removed to Aquileia, a town at that time fo celebrated that it was called a fecond Rome. Haxing made himfelf acquainted with the polite literature of the ace, he withdeew into a moma. fiery, where he devoted himfelf to the flady of theology. While thus occupied, St Jerome happered to pifs throrgh A quileia. Rufnus formed an intimate friendhiip with him ; but to his inexpreffible grief was foon deprived of the company of his new friend, who continued his travels through France and Germany, and then fet out for the eaft. Rufinus, unable to bear his abfence, refolved to follow him. Accordinily he embarked for Egypt ; and having vifted the hermits who inhabit the deferts of that country, he repaired to Alexandria to hear the renowned Didymus. Here he was gratifed with a figlt of St Me'ania, of whofe virtue and cbarity he had heard much. The fanctily of his manners foon obtained the confidence of St Melania, which continued without interruption during their refidence in the eaft, 'a period of 30 years. The Arians, who fwayed the ecclefiaftical feeptre in the reign of Valens, perfecuted Rufinus with great cruelty. They threw him into a dungeon, loaded him with chains, and afier almoft farving lum to death, banihied him to the deferts of Paleftinc. Froma this exile he was relieved by the recuniary aid of St Melania, who employed her wealeh in ranfoming thole confeffors who hed been conderaned to prifon or batnifument.

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$R$ fius . St Terome, fuppoing that Kufinus rould immediateIy praced to Jerulaten, wrole to one of his friends there, congrabulatung kian on the profpet of fo illuftrioas a vilitor: To Jeruaiem be went, and having built a monatery ois the Nount of Otives, he there afiembled a great number of hermis, whom he animated to viltue by his exhortations. He converted many to the Chrittian faith, and perfuaded more than 400 hermits who bad taken part in the Fchifm of Antiuch to teturi to the clourch. He prevailed on many Macedonians and Arians to renotuce their errors.

His altachment to the opinions of Origen fot him at variance with St Jeroure, who, being of a temper pecuTiarly irritable, not oniy retrafed all the prai es :rhich te had lasihed upon him, but loaded him with fevere repzaches. Their difputes, which were carried to a very indecent beigitt, tended to injure Chrifilanity in the eyes of the weak. Theophius, their mutual triend, fettidu their diferences; but the reconciliation was of thort consin, unce. Riff: us having publifhed a tranflation of the painciples of Origin at. Rome, was fummoned to appear before Pope Analtafius. But he made a fpecious apology for not appearing, and fent a vindication of his work, in which be aiternipted to prove th:e certain errors, of which Origen had been accufed, were perfectly confileat with the opinions of the onthodox. St Jcrome attrcked Rufinus's tranflation. Rufnuas compoled an elozuent reply, in which he declared that he was only the tranflator of Origen, and did not confider himfelf bound to fanction all his errors. Moft ecclefinitical hiforians fay that Rufinus was excommunicated by Pope Anaftafius; but for this no good evidence has been brought. In. 407, he returned to Zume; but the year after, that city being tbreatened by Alaric, he retired to Sicily, where be died in 410.

His works ate, 1. A Tranflation of Jofephus; 2. A Trantlation of feveral works of Origen; 3. A Iatin Verfion of Ten Difcourfes of Gregory Nazianzen, and Eight of Bafl's; 4. Chromatius of Aquileia prevailed on him to undertake a Tranflation of the Ecclefaftical Hiftory of Eufebius, which engaged him almolt ten years. He made many additious to the body of the work, and continued the hiftory from the 20 th year of Conftantine to the death of Theodofius the Great. Many parts of this work are negligently written, many things are recorded as facts without any authority but common report, and many things of great importance are entirely omited. 5. A Vindication of Origen. 6. Two Apologies addreffed to St Jerome. 7. Commentaries on the prophets Hofea, Joel, and Amos. 8. Lives of the Hermits. 9. An. Explanation of the Creed.

RUGEN, an idand in the Batuic fea, on the coaft of Pomerania, over againft Stralfund, about 23 miles in length and 15 in breadth, with the title of a frincipality. It is ftrong both by art and nature, abounds in corn and cattle, and belongs to Swaden. The chief town is Bergen. E. Long. 14.30. N. Lat. S4. 32 .

RUINS, a term particularly ufed for magnificent buildings fallen into decay by length of time, and Whereof there only remains a confufed heap of materials. Such are the ruins of the tower of Babel, of the tower of Belas, two days journey from Bagdat, in Syria, on the banks of the Euphrates; which are now no more than a heap of bricks, cemented with titumen, and
whereof we only perceive the plan to have been fquare. Sicht alfo are tinc ruins of a famots temple, or palace, yent Schiras, in Perlit, which the antiguaries will h. ve to have been buiit by thatuczus, and which the Perfians :now call Tclielminar, or Chelminar; q. d. the $\neq$ columns; becaufe there are fo many columns remaining pretty entire, with the trac's of cthers; a great quantity of baflo-zelievos, and unknumn olatacters, futicient to flew the marnifce ce of the antiqua archiecture. The moft remarkat le ruins now exiting of whole cities are thote of Pamiviri and Persefol:s, of the grandeur of whach tone ides may be formed from the viens given in the $i$ a:es reforred to from thefe articies, to which may be added thofe of Hercus.anet'm and Powperr. The magnificent reins fill remaining in Rome, Athens, \& : c. of particular edifices, as ternples, palaces, amphitheatres, aqueducts, baths, \&ic. it were endleis to coumeratc, and beyond the plan of this noik to reprefent.

RUIZis 1, a gents of plants belonging to the monadelphia cla.s; and in the nataral m thod ranki g under the $37^{\text {th }}$ order, Columnifore. See Botany Inder.

RULE, in matters of literature, a maxim, canon, or precept, to be obferved in any art or fcience.

Rule, in a monattic fenfe, a fyttem of laws or regulations, according to which religious honfes are governed, and which the religious nake a vow, at their entrance, to obferve. Such are the rules of the Auguflines, Benedictines, Cartiufians, Franciicans, \&zc. See Augustines, \&c.

RULES of Court, in Law, are certain orders made from time to time in the courts of law, which attorneys are bound to obferve, in order to avoid confufion; and both the plaintiff and defendant are at their peril allo bound to pay obedience to rules made in court relating to the caule depending between them.

It is to be obferved, that no court will make a rule for any thing that may be done in the ordinary courle; and that if a rule be made, grounded upon an alfidavit, the other fide may move the court againft it, in order to vacate the fame, and thereupon thall bring into court a copy of the afidavit and rule. On the breach and contempt of a ru?e of court an attachment lies; but it is not granted for difobedience to a rule, when the farty kas net been perfonally ferved; nor for difobeying a rule made by a judge in his chimber, which is not of force to ground a motion upon, unlefs the lame be entered.

A rule of court is cranted every day the courts at Weftminfter fit, to prifoners of the King's-bench or Fleet prifons, to go at large about their private affairs.

RULE of Threc. Sce Ariminkic and PrororTION.

Rule, or Ruler, an inftrument of wood or metal, with feveral lines delineated on it; of great ufe in prastical menfuration. When a ruler has the lines of chords, tangents, fines, \&c. it is called a plane feale.

RUM, a fpecies of brandy or vinous fririts, dittillad from fugar canes.

Rum, according to Dr Sh:sw, differs from fimple fugar-fpirit, in that it contains more of the natural flavour or effential oil of the fugar-cane; a great deal of raw juice and parts of the cane itfelf being ulually fer'mented in the liquor or folution of which the 10 m is

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 prepared. The unctuous or oily flavsur of rum is often fuppofed to proceed from the large quantity of fat ufed in boiling the fugar ; which fat, indeed, if coarfe, will ufually give a flinking flavour to the fpisit in our ditfil--lations of the fugar liquor or wafl, from our refining fugar-houfes; but this is nothing of kin to the flavour of the rum, which is really the effect of the natural flavour sof the cane:The method of making rum is this: When a fufficient foik of the materials are got together, they add water

- to them, and ferment them in the common method, though the fermentation is always carried on very flowly at firl ; becaufe at the beginning of the feafon for making rum in the iflands, they want yeaff or fome other ferment to make it work : but by degrees, after this, they procure a fufficient quantity of the ferment, which rifes up as a head to the liquor in the operation; and thus they are able afterwards to ferment and make their sum with a great deal of expedition, and in large quantifies.

When the waih is fully fermented, or to a due degree of acidity, the diftillation is carried on in the common way, and the fpirit is made up proof: though fometimes it is reduced to a much greater ftrength, nearly approaching to that of alcohol or firit of wine; and it is then called double-difilled rum. It might be eafy to reetify the fpirit, and bring it to much greater purity than we ufually find it to be of: for it brings over in the diatillation a very large quantity of the oil; and this is often fo difagreeable, that the rum mult be fuffered to lie by a long time to mellow before it can be ufed; whereas, if well rectified, it wonld grow mellow much fooner, and would have a much lels potent flavour.

The beft fate to keep rum in, both for exportation and other ufes, is donbtlefs that of alcohol or rectified fpirit. In this manner it would be tranfported in one half the bulk it ufually is, and might be let down to the cormion proof-ftrength with water when neceflary : for the cominon ufe of making punch, it would likewife ferve much better in the ftate of alcohol ; as the tafte would be cleaner, and the Arength might always be regulated to a much greater exafnefs than in the ordinary way.

The only ufe to which it would not fo well ferve in this fatc, would be the common practice of adulteration among our difliliers; for when they want to mix a large portion of cheaper firit with the rum, their bufinels is to have it of the proof-ftength, and as full of the flavouring oil as they can, that it may drown the flavour of the fpirits they mix wih it, and extend its จwn. If the hufinefs of rectifying rum was more nicely managed, it feems a very practicable fcheme to throv out fo mauch of the oil, as to have it in the fine light 1 tate of a clear fipirit, but lightly impregnated with it: in this cafe it would very nearly refemble arack, as is proved by the mising a very fmall quantity of it with a taftelefs fyirit, in which cafe the whole beass a very near refemblance to arack in flavour.

Rum is ufually very much adulterated in Britain; fome are fo hare.f.ced as to do it with nalit-fpirit ; but when it is done with molafles fpirit, the taftes of both are fo nearly allied, that it is not eafily difcovered. The beft method of judging of it is by fetting fire to a little of it; and, when it has burnt away all the inflamma-
ble part; exnminting the phlegra both by thentafte thd finell.

Rus is a confiderable ifland, one of the Hebrides, or rather one continued rock, of neariy 30 miles in circumference. It is tie property of Mr Miaclean of Coll; contains 400 inhabitants; grazes cattle and facep; pays above 2001 . rent anmually: but has meither kelp, frecftone, nor lime.

RUMELIA, in Gegrraphy, the fame with ancient Greece; now a part of Turkey ia Etrope.
RUNIEN, the paunch, or firf formach of fuch animals as chew the cuà; thence called Rumitant Arimai's. See Anatomy, Comparative.
RUMEX, DOCK, a genus of piznts beionging to the hexandria claic, and in the natural method ranking under the 12 th order, Holoracea. See Botiny Index.

RUMINANT, in Netural Hifory, is applied to an animal which chews over again what it has eaten before; which is popularly called cluewing the cud. Peyer, in a treatife De Ruminar:ibus ef Rumizationc, fiows that there are fome animals which really ruminate; as oxen, fheep, deer, goats, camels, hares, and fouirrels: and that there are others which only appear to do fo, es moles, crickets, bees, beetles, crabs, mullets, \&c. The latter clafs, lie obferves, hare their fomachs compofed of mule:lar fibres, by which the food is ground up and down'ss in thofe which really ruminate. Mr Fiay obferves, that ruminants are all four-footed, hairy, and viviparous; fome with hollow and perpetual horns, others with deciduous ones.

RUMP of the sacrifice. Mofes lad ordained, that the rump and fat of the flieep that were offied for a peace-offering fhould be put upon the fre of the altar, (Lev. iii. 9. vii. 3. viii. 25 . ix. 19.). The rump was efteemed the mof delicate part of the animal.

RUMPHIA, a genus of plants belonging to the triandria clafs, and in the natural method ranking with thofe of which the order is doubtful. See Borasiy Index.

RUNCIMAN, Atexander, an emirent Scotifh painter, was born in Edinburgh in the year 1736. He was the fon of an arclited, a profetion which has a frong aflinity to that of painting. The opportunity he thus enjoyed of exawining his fatt:en's drawings, gave him an early propenfty to the art in general, which he very foon evinced by making fetches of any remarkable object, either of nature or art, that happened to come in his way. We are unacquainted with the gradual progrefs of his fertile genius ; but it is not to be iuppofed that he long remained fatisfied with the delineations of ftraight lines, while the fafcinating beauties of landfcape lay open to his inipecion. Water that falls over a rugged precipice in the form of cafcades, or the forming furges of the deep, when carried like hoar froft with impetuofity into the air, both aftonifla and delight by their awful grandeur. Theie objeets, and fuch as thefe, would naturally fire the genius of Runciman at an early period.

He was bound an apprentice to John and Robest Norrics in the year 1750; the former of whom was a landfcape painter of vely comfiderable eminence, and by his inftrections our young artill made rapid progrefs. About the year ${ }^{1} 755$, when only 19 years of age, he began profeffionally to paint landfcapes; from which it appeared tinat thay were by no means firft attempts, as they evin-

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tion, his only preferver, and even by the language it-Ranciman
Runcimas. ced his ardent application to fludy before he ventured to appear at the tribunal of the public. Yet, although thefe were excellent, they were nothing more than the dawn of that dittinguifhed eminence to which he afterwards attained. His reputation as a painter of landicape continued to increafe during five years; but fuch was the flength of his genius, and the amazing fertility of his invention, that he could not reft fatisfied with eminence in a fingle department. About the year 1760 be fuccelffully attempted hiftorical painting, in which his mind had more ample fcope than in pourtraying the folemn filence of a field, a humble cottage, or a thepherd void of ambition. Six years of his life were devoted to the fudy and practice of this important branch of the art, notwithflanding his fituation was attended with numerous difadvantages. Great, however, as his attainments were in this department, he never could be fatisfied with himfelf, till he had fludied in Italy thofe maiterly performances which it was his higheft ambition to imitate.

He accordingly fet out for Italy in the year 1766, when juft 30 years of age, and during a refidence of five years in that enchanting country, where fpecimens of his favourite art are met with in all their grandeur and perfection, he continued to copy the beft pictures of the ancient mafters, in confequence of which his talte was very much correzed and improved. His conceptions were alfo greatly enlarged, by the feady contemplation of fo many fublime works of the greateft and moft celebrated artifts. The art of compofition, which it is of the firft confequence for an hiftorical painter to undertand, was only to be acquired from the ftudy of its principles, as thefe are exemplified in fuch highly finithed models; and to theie he applied himfelf with indefatigable induftry. He caught the rich yet chafte colouing of the Venetian fchool with fuch truth, that he was allowed to furpafs all his competitors in this valuable quality.

In the year 1771 , Runciman returned to his native country, in the full poffefion of fuch improvements as were to be expected from the opportunities he enjoyed, and alfo with a judgment very much matured. It will readily be granted that he had now fome claim upon the patronage of his country, and we are happy to aod that this was not withheld; for the Honourable Board of Truftees, and Sir James Clerk of Pennycuick, were among his patrons; and to Mr Robert Alexander in particular, a refpectable merchant in Eöinburgh, his country was more indebted for the foftering of his rifing genius, than to the whole of its nobility.

An academy for the flady of drawing and painting was eftablifhed in Edinburgh by the hoinourable truitees for the encouragement of arts in Scotland, of which De la Cour and Paviloa, two French artifts of fome ability, were fucceflively chofen mafters, When Pavilon dicd in 1771 , an application was made to Runcim3n to take charge of the academy, the laborious and interefting duties of which he difcharged much to his own honour and the benefit of his corentry.

His maferly work in the Hall of Offian at Pennycuick, the feat of his pairon Sir James Clerk, was projeited and begun by him foon after liis return to Idinburgh. Of this performance, the following account was given hy a very eminent judge.
" She fate of old Oifian feems to have been peculiarly happy. Upon the eve of being deferted by LradiVoL. XVIIL, Part 1.
felf, the genius of Macpherfon interpofed, received the charge, and gave bim to the world.
"Fortunate in a tranilator, the Celtic bard has been equally fo , in receiving bis fame from the talte and judgment of a critic, bleit with every valuable quality and character.
" To complete the honours of the poet, nothing was wanting, but the attendance of the iiter art. It was therefore with uncomaion pleafure, that I heard his being adopted by a native artint, under the patronage of a gentleman, diftinguilhed by a fine tafte and warm regard to the arts. The work, which is now finifhed, is the only original performance ever cxecuted in Scctland."

The next able performance of Runciman was the picture of the Afcenfion, painted on the ceiling above the altar of the Epilcopal Chapel, Corrgate, Edinburgh.

The fire and feeling difplayed in his King Lear, were conceived and executed in a manner not inferior to thofe of Shakefpeare ; and the Andromeda, from which Legat took his highly finifhed engraving, will bear a comparifon, in refpect of colouring, with the works of Titian or Corregio. He appears to have regarded his own hiftorical work of Agrippina landing the athes of Germanicus her hurband, as a capital performance, in the execution of which he bellowed more than ordinary pains; and pofterity will determine that his opinion was juf, as the ingenious Mr Brown bellowed upon it the higheft encomiums.

While his health permitted (which the painting the hall of Oflian had much impaired), he continued to fuperintend the bufinels of the academy, and devoted his leifure hours to the drawing of hiftorical pieces. He enjoyed a competency from his office as teacher, which, with the emoluments arifing from his other works, made him independent. He never formed any matrimonial connection, but he had a natural fon called John, who was bred to the occupation of a filverfmith, and wert afterwards to refide in London.

Runciman as a man, was poffefed of great candour and fimplicity of manners, having a happy talent for converfation, which made fome of the moft diftinguifhed literary characters, fuch as Hume, Robertion, Kaims, and Monboddo, extremely fond of his company ; but the genuine wrorth of this eminent ruan, and his real goodnefs of heart, were only fully known to his moft intimate friends. He could communicate information with great facility, and gave his beft advice to young artifts, with \& view to further the progrels of their improvement.

As a painter, his clarafter has been elegaaily drawn by a brether artist, the accomplithed Mr John B:own, who was better qualified than moft men to make a pro--per eftimate of his merits. We flall lay this thetch before our readers in his oun wards.
" Mr Runciwan was an artiit by nature, eminently qualiied to excel in all thofe nobler parts of the art, the attaitment of which depends on the pofferion of the higheft powers of the mind. - Thoughl for a long period of years labouring under every poffiole difadvantage, he cormpleted works, w' ich upon the whole, are equal to the befl ut thofe of his cotemporaries, and in fume refpeete, it may be boidly afferted, that they are fuperior: -His fancy was fertile, his diicerument of character X x
keen,

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Streiem Iseen, his tafie thuly elegant, and his conceptions always great.- 1hough his genius feems to be beft fuited to the grand and frious, yet many of his works amply prove', that he could move with equal friccefs ia the lefs elevatcd line of the gay and pleafing. His chief excellence was compofition, the noblett part of the art, in which it is doubted whether he had any living fuperior. With regard to the truth, the harmony, the richnefs, and the gravily of colouring; in that file, in thort, which is the peculiay charaEteritic of the ancient Venetian, and the direct contralt to tire modern Englith fohool, he was unzivalled. His works, it muft be granted, like all thofe of the prefent times, were far from being perfect ; but it was Mr Ranciman's peculiar misfortune, that his defects were of luch a nature, as to be obvious to the moft unkilful."

The fine arts and his friends were deprived of this extraordinary painter, on October 2191785 .
RUNDLET, or Runlet, a fmall veffel, containing an uncertain quantity of any liquor, frcm 3 to 20 gallons.

RUNGS, in a fhip, the fame with the floor or ground timiers; being the timbers which conflitute ber floor; and are bolted to the keel, whofe ends are fung-heads.
RCNG-Heads, in a thip, are made a little benoing to direct the fweep or mold of the futtocks and naveltimbers; for here the lines begin which make the compafs and bearing of the fhip.

RUNIC, a term applied to the language and letters of the ancient Goths, Danes, znd other northern nations. See Alphabet.

RUNNER, in the fea-language, a rope belonging to the garnet and the two bolt-tackles. It is reeved in a fingle block joined to the end of a pendant: it has at one end a hook to hitch into any thing; and, at the other, a double block, into which is reeved the fall of the tackle, or the garnet, by which means it purchafes more than the tackle would without it.

RUNNING-Thrush, a difeafe in the feet of horecs. Sce Firriery Inder.
RUNNET, or Remnet, is the concreted milk found in the ftomacbs of fucking quadrupeds, which as yet have received no other nourifhment than their mother's milk. In ruminating animals, which have feveral fomachs, it is generally found in the laft, though fometimes in the next to it. If the runnet is dried in the fun, and then kept clofe, it may be preferved in perfection fer years. Not only the runnet itfelf, but alio the ftomach in which it is found, curdles milk without any previous preparation. But the common method is, to take the inner membrane of a calf's fomach, to clean it well, to fale and hang it up in brown paper: when this is ufed the falt is wafted off, then it is macerated in a little water during the night, and in the morning the iafufion is poured into the milk to curdle it. But fee more particularly the auticle Cheese for a proper meceipt to make runnet, upon which the quality of the cheefe greatly depends.

RUPEE, a filver coin current in the Eaft Indics, equal to about 2s. 6d. fterling.
rupert, or Robert. See Robert.
Rupert, prince palatine of the Rhine, \&cc. fon of Frederic prince elector palatine of the Rhine and Eli-

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fabeth daughter to King James I. of England, was born Rupers. in 1619 . He gave proofs of his bravery at the age of 13 ; and in 1042 came over into England, and ofiered lis fervice to King Charles I. his uncle, who gave him a cormmand in his army. At Edgehill he charged with incredible bravery, and made a great flaughter of the parliamentarians. In 1643 he feized the town of Cire cefter; obliged the governor of Litchfeld to furrender; and having joined his brother Prince Maurice, reduced Briftol in three days, and paffed to the relief of Newark. In $16+4$ he marched to relieve York, where he gave the parliamentarians battle, and entircly defeated their right wing; but Cromwell charged the marquis of Newcaftle with fuch an irrefiftible force, that Prince Rupert was entirely ${ }_{6}$ defeated. After this the prince put himfelf into Briftol, which furrendered to Fairfax atter a gallant refifance. The king was fo enraged at the lofs of this city, fo contrary to his expectation, that he recalled all Prince Rupert's commiffions, and fent him a pafs to go out of the kingdom. In 1645 he went to France, was highly complimented by that court, and kindly received by King Charles II, who fojourned there for the time. Afterward he was conftituted admiral of the king's navy; attacked the Dutch fhips, many of which he took; and having engaged with De Ruyter, obliged him to fly. He died in 1682 , and was interred with great magnificence in King Henry VII.'s chapel, Weftminfter. Mr Grainger oblerves, that he poffeffed in a high degree that kind of courage which is better in an attack than a defence; and is lefs adapted to the land-fervice than that of the fea, where precipitate valour is in its element, He feldom engaged but he gained the advantage, which he generally loft by purfuing it too far. He was better qualified to florm a citadel, or even to mount a breach, than patiently to fuftain a fiege; and would have furnillied an excellent hand to a general of a cooler bead.

This prince is celebrated for the invention of prints in mezzotino, of which he is faid to have takien the hint from a foldier's fcraping his rufty fufli. The firf print of this kind ever publifhed was done by his lighnefs, and may be feen in the firf edition of Evelyn's Sculptra. The fecret is faid to have been foon after difcovered by Sherwin an engraver, who made ufe of a loaded file for laying the ground. The pricee, upon feeing one of his prints, fufpected that his fervant had lent him bis tool, which was a channeled roller; but upon receiving full fatisfaction to the contrary, he made him a prefent of it. The roller was afterwards laid afide; and an inftrument with a cronelled edge, fhaped like a thoemaker's cutting knife, was ufed inftead of it. He alfo invented a metal called by his name, in which guns were caft ; and contrived an excellent method of boring them, for which purpofe a water-mill was crected at Hackney-marfh, to the great detriment of the undertaker, as the fecret died with the illultrious inventor.

RUPERT'S Drops, a fort of giafs drops with long and flender tails, which burft to pieces on the breaking off thofe tails in any part; faid to have been invented by Prince Rupert, and therefore called by his name. Concerning the caufe of this furprifing phenomenon fcarcely any thing that bears the leaft appearance of probabi. lity has been offered. Their explofion, it is faid, is at-

Rupin Fended in the datk with a flath of light; and by being boiled in oil, the drops are deprived of their explofive quality.

RUPIN, or Rapis, a town of Germany, in the marquilate of Brandenburg, and capital of a duchy of the fame name. It is divided into the Oid and the New. Thie Old was nothing but an ancient caftle, very well furnifted, the late king of Prulfia, before his father's deatb, refiding there. New Rupin is feated on a lake, and become a confiderable place of trade, with a manufactory of cloth. It is ello noted for brewers. E. Long. 13. 23. N. Lat. 53.0.

RUPPIA, a genus of plants, belonging to the tetrandria clafs; and in the natural method ra:king under the 15 th order, Inundata. See Botany Index.

RUSCUS, knee-holly, or Butcher's Broom; a genus of plants, belonging to the dioecia clafs; and in the natural method ranking u-der the 11 th order, Sarmentacer. See Botany Index.

The moft remarkable fpecies is the aculeatus, or common butcher's broom, common in the woods in many parts of England. It has roots compofed of many thick fiores which twine about each other ; from which arife feveral ft:ff green falks about three feet high, fending out from their fides feveral fhort branches, garnifhed with ftiff, oval, heart-fhaped leaves, placed alternately on every part of the falk, ending with flarp plickly points. The flowers are produced in the middle, on the upper fide of the leaves; they are fmall, and cut into fix parts; of a purple colour, fitting clofe to the midrib. They appear in June; and the female flowers are fucceeded by berries as large as cherries, of 2 fweetifh tafte, which ripen in winter; when they are of a beautiful red colour. As this plant g. ows wild in mof parts of England, it is rarely admitted into gardens; but if fome of the roots be planted uider tall trees in large plantations, they will fpread into iarge clumps; and as they retain their leaves in winter, at that feafon they will have a good effect. The feeds of this plant generally lie a year in the ground before they vegetate; and the plants fo raifed are long before they arrive at a fize big enough to make any figure, and therefore it is much better to tranfplant the roots.The roct of this plant is accounted aperient, and in this intention is fometimes made an ingredient in apozems and diet-drinks, for opening flight obftructions of the vilcera and promoting the fluid fecretions. This plant is ufed by the butchers for tefoms to fiveep their blocks. Huckfters place the boughs round their bacon and cheefe to defend them from the mice; for they cannot make their way through the prickly leaves.

Rush. See Juxcus. Botany Index.

## Rush-Candles. See Ru/b.CANDLEs.

RUSHWORTH, Joнs, the compiler of fome ufeful colledions refpecting the affairs of flate, was born in Northumberland about the year 1657 , and was defce:1ded of honou:able ance ors. After attending the univerfity of Oxford for fome time, he removed to Lincoln's Inn; but the fudy of law not fuiting his genius, he foon deferted it, in order to feek a fituation where he might more eafily gratify his love for folitical information. He frequently attended the meetings of parliament, and werete down the fpeeches both of the king and memhers. During the fpace of 11 years, from i 1630 to 1640 , when no parliament was held, he was an
tttentive obferrer of the great tranfaltions of fate in Rufhw -h . the flar-chamber, the court of honour, and exchequer chamber, when all the $j$ adges of England afficmbled there on cafes of great emergency. Nor did be negleet to obierve with a watchtul eye thofe events which happened at a diltance from the capital. He vifited the camp at Berwick, was prefent at the battle of Newborn, at the treaty of Rippon, and at the great counciif of York.

In 1640 he was appointed affitant to Henry Elrynge clerk to the houfe of commons, and thus had the beft opportunities of bing acquainled with their debates and proceedings. The commons confidered him as a perfon worthy of confidence. In particular, they trulled nim with carrsing their meTages to the ing while he remained at York. And when the parlianent created Sir Thomas Fairfax thcir general, Rufhworth was appointed his fecretary, and difcharged the office much to the advantage of his mafler. When Fairfax refigned his commillien, his fecretary returned to Lincoln's Imn, and was foon after (in If $5 \mathrm{I}-2$ ) cliofen one of the comnittee that was appointed to delibcrate concer i! g the propriety and means of altering or new-modelling the common lave. He was elceled one of the reprecientatives for Berwick-upon-Tweed to t'e pariiament which Richard Cromwell aftemiled in 1658 , and was re-elected hy the fame torsn to the parliament which reftered Charles II. to the crown.
Af:er the Reforation, he delivered to the king feveral books of the privy-council, which he had priferved in his own poffefion during the commotions which then agitated the country. Sir Orlando Bridgeman keeper of the great feal chofe him his fecrelary in 1677 , an of fice which he enjoyed as long as Sir O:lando kept the feals. In 1678 le was a third time chofen member for Berwick, and a fourth time in the enfuing parliament in 1679 He was alfo a member of the parliaicent whicls was convened at Oxford. The different offices he had held afforded him favourable opporturities of acquirin a fortune, or at leaft an independence; yct, whether from negligence or prodirality, he was never poffeffed of wealth. Having run himelf into debt, he was arrefted and committed to the King's Bench prifon, Southwark, where he lingered for the laft fix years of his life in the moft deplorable condition. His memory and judgement were much impaired, partly by age and partly by the too frequent ufe of firitucus liquors. He died on the 121 h of May 1690.

His "Hiftorical Collections of private Paffages in State, weighty Matters in Law; remarkable Proccedings in Parlizment," were publifhed in folio at different times. The firf part, comprehending the years betwcen 1618 and 1629 , appeared in 1659 . The copy had been entrufted by Oliver Cromwell to Whitclock. with infructions to perufe and examine it. Upon peruling it, he thought it neceffary to make fome alterations and additions. The fecond part was publihed in 1680 ; the third in 1692 ; the fourth and lant, which comes down to the year 1648 , was publifhed in 1701; and altogether made feven volumes. The'e anderwent a fecond edition in 1721; and the trial of the earl of Strafford was added, which made the eighth. This work has bcen much applauded by thofe who condemn the conduct of Charles I. and accufed of partiality by thofe who favour the caufe of that unhappy monarch. One perfon X×2

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Rufhworhwin particaling, Dr Jołm Nelcon of Carubridge, ir a ColR $\#$, lection of the Affairs of State publifhed by the command Rufiza. of Charles II. undertion 'to prove, "that fuuhworth has eoncealed truth, endeavoured to vindicate the prevailing detractions of the late times, as well as their barbarous actions, and with a kind of rebound to libel the goyernment at fecond-hand." This accufation feems to be carried too far. His prisciples indeed led hima to fhow the king and bis adherents in an unfavourable light, and to vindicate the proceedings of parliament; yet it cannot juttly be affirmed that he has mifreprefented or falfified any of the fpeeches or facts which he has admitted into his collection. Perhaps he may have omitted fome papers merely becaufe they were unfavourable to the party which he had efpoufed ; and is therefore not to be confidered as an impartial hiflorian who relates the whole truth, but as an honefl lawyer, who flates all bis facts fairly and candidly, but paffes over fuch as are injurious to his client's caufe.

RUSSELIA, a genus of plants belonging to the pentandria clafs. See Botany Index.

1
Situation and boundarics.

RUSSIA, the largeft empire, and one of the mott powerful fates in the known world, is fituated partly in Europe, partly in North America, but chiefly in Afia; where it eccupies that immenfe tract of country which extends from the Uralian mountains and the Cafpian on the weft, to Bering's ftraits and the fea of Kamtichatka on the eaft, comprehending a great variety of tribes and nations, whole very names were, half a century ago, fcarcely known to the welt of Europe. This valt empire is boumded on the north by the Arclic ocean; on the eaft by the Northern Pacific or Eafern ocean; on the fouth by the extenfive Chinefe territories, the Mogul empire, the Cafpian fea, and part of Turkey; and on the weft by the Aufrian dominions, the kingdoms of Pruffia and Sweden, and the Baltic.
Ftens.
If we examine the extent of the Ruffian empire, we fhall nind it Atretching from the weitern part of the illand of Ozel in the Balicic in $22^{\circ} \mathrm{E}$. Long. from Greenwich, to the eaftern promontory of the Tfchutchki territory in $172^{\circ}$ E. from the fame meridian; thus including $150^{\circ}$ of longitude; while, from its moft northern promontory in N . Lat. $78^{\circ}$, to the mof fouthern point of $39^{\circ} \mathrm{N}$. it comprehends $39^{\circ}$ of latitude. Mr Tooke, computing its extent in Britih miles, eftimates it at 9200 in length, and $2 廿 20$ in breadth. Its abfolute fuperficial meafure in fquare miles can fearcely be afcertained. That of the European part is eftimated at $\mathbf{1}, 200,000$ fquare miles ; and the Affatic part alone is fo extenfive as to exceed the whole of Europe.

The whole Rufian empire is, by the natural boundary of the Uralian mountains, divided into European and Afiatic Ruffia; the former comprehending Ruffia Proper, Ruffian Laplaud, Courland, Livonia, Ruffian Poland, the Taurican Cherfonefus or Crim Tartary, and the country of the Kozaks, bordering on the Sea of Azof; the latter including the country of the Samoieds, the vaft diffrict of Siberia, the country of the Tichutchki, the country of the Mongul Tartars, and fome other diftricts that will be noticed hereafter. The
whole empire was, by Catharine $\mathrm{II}_{4}$ divided into go Ruxiotr $t$ vernments, denominated in general from the names of their capital cities. Of thefe governments, by far the greater number belong to European Ruffra, the vaft tract of the Afiatic part having been divided into only two governments, riz. that of Tobolks to the weit, and ? Irkutk to the eait.

In enumerating the governments of European Ruffia, we fhall begin with the north, where lies the extenfive government of Archangel, ftretching from the confines of Sweden along the fhores of the White fea and the Arctic ocean, to the Uralian chain. To the fouth of this, along the Afiatic frontier, as fas as the fea of Azof, are fituated the governments of Vologda, Perm, Vyotka, Kazan, Simbirk, Saratof, and the territory of the Don Kozaks. To the welt of thefe laft, along the fea of Azof and the Black fea, lies the government of Catharinoflaf, including Taurida and the Crimea. On the weftern fide of the empire extend the acquifitions derived from the paxtition of Poland; and along the fouthern fllores of the Baltic lie the governments of Riga, heval, St Peterburgh, and Viborg; while that of Olonetz on the frontiers of Sweden completes the circuit. The remaining governments which occupy the centre, are thofe of Novgorod, Tver, Koftrom3, and Yaroflavl, that lie chiefly to the north and eaft of the Volga ; and thofe of Polotik, Plkov, Smolenik, Molkva, Vladimir, Nizney-Novgorod, Moghilef, Kaluga, Toula, Reazan, Tambof, Penza, Orel, Sieverßof, Tchernigof, Kourk, Kief, Kharkof, and Voronetz, lying principally to the weft of the Volga (A).

In the account which we are here to give of this exa tenfive empire, which has of late made fo confpicuous a figure among the ftates of Europe, we fhall firft confider what may be called the permanent features of the empire, as the face of the country, the foil, the mountains, rivers, lakes, and forefts, the climate and feafons, and the moll important natural productions; we fhall then trace its origin and progrefs in the hiftory of its tranfations, from which we fhall deduce its progreffive geography; and we fhall conclude with defcribing the more fluctuating circumflances, which conflitute its political and civil geography:

In a tract of country fo immenfe, which is calculated Face of the to include a feventh part of the known continent, and country. nearly a twenty-fixth part of the whole globe, its furface muft prefent a great variety of appearances; but thefe are much more remarkable in Afatic than in European Ruffia. The latter is diftinguifhed chiefly by extenfive plains, called feppes, that rival the deferts of Afia and Africa, prefenting to the eye little more thans a vaft expanfe of level fand, with very little appearance of vegetation. The chief fituation of thefe fteppes is to wards the fouth, efpecially in the neighbourhood of the fea of Azof, where they extend in length above 400 Britifh miles. In this part of the empire there are bui few confiderable elevations, and no mountains of inst. portance, except on the eafern frontier, and zowards the fouth, between the Don and the Volga. The whole country is well watered with rivers, and contains numier-

[^10] grinciples of Ruffan orthography, in his Hifory of Rulya, vol. i. p. 130.


EIHONE.

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Kuffiat... Aous jagtge anch toppulous towns. If the nowthand eaft of Afiatic Ruffia, we fee little more than extemive marfhy plains, covered with almott perpetual foow, and croffed bytbroad rivers, which take their courfe to the Arctic occain. In this part, and even towards the centre of Silieria, "vegetation is fo much checked by the fevere cold, that few trees are to be feen; bat towards the fouth therearevait foretts of pine, fir, larch, and trees of a fimilar nature. In fome parts of this divifion of the empire, efpecially about lake Baikal, the fcenery is beautiful and picturefque. Here, too, the country abounds in fteppes, which are ftill more extenfive than thofe of the European part.

As thefe iteppes are among the moft ftriking peculiarities of the Ruffian empire, it may be proper to confider them rather minutely. Thefe fteppes refemble, in many refpects, the fandy deferts of Africa; but though their foil is compofed of the fame materials, they are not fo barren of vegetation, exhibiting here and there fcattered patches of thin grafs, and at diftant intervais, finall ftunted thickets. In general they are deftitute of wood, though in a few places we find fmall forefts of birch trees. They abound with falt lakes, but ftreams of frefh water are uncommon. The moit remarkable fteppes are, as we have faid, thofe of Afiatic Ruffia, and of thefe there are four that merit particular notice. One of thefe extends between the rivers Volga and Ural, and was formerly called the Kalmuk fteppe. On the north it $\mathbb{0}$ irts the floetz mountains that proceed from the Uralian chain, while to the fouth it borders on the Cafpian. This fandy plain contains a few diftricts that are well adapted to the purpoies of agriculture, but in general it is deftitute of wood and frefh water. It abounds in falt lakes, and is very thinly inhabited. The fecond great fteppe is that which extends between the Tobol and the Irtyfh, and between this latter river and the Alay and the Oby, as far as the influx of the Irtyfh into the Oby. This comprehends a molt extenfive territory, containing numerous forcfts of birch, pines, and firs, interfperfed with falt lakes, and in moft places well cal. culated for pafturage and agriculture. The greater part of this fteppe lies in the government of Tobolif. A third comprehends that large tract that lies beyond the river Thulim, between the Oby and the Yenifly, as far as the fhores of the Arctic ocean. In this fteppe there is much wood, efoecially towards the fouth, where there are confiderable forefts. Eaftward from this, between the Yeniffy, the Tungufka, and the Lena, lies a fourth defert, refembling the laft in its appearance, and the na. ture of its foil, but containing lefs wood. A great part of this fteppe lies in the goverament of Irkutak.

The mountains in Afiatic Roflia are indeed more numerous, but are not remarkable for their height. The rigers are large and majeftic, and are navigable for a confiderable extent.

The foil is of courfe extremely various. That of the northern parts is marfiny, and little fufcentible of cultivation, but the fouth abounds in rich and fertile plaius. The moft fertile part of European Rulia is that between the Don and the Volga, from the govermment of Voronet $\mathrm{f}_{\mathrm{k}}$ to that of Simbirk. Here the foil confils of a thack mould, ftrongly imprennated with nitre, and is f. rich, t.int the fields are never manured. The harvefts 2re a'sundent, and the natural paftures render the fowing
of artificial graffes unnéceffary. Moft parts of'Siberia are totally incapable of agriculture and improvement.

Wo bave already remarked that Ruffia is rather a flat than a mountainous country, and this character is particularly applicable to the European part. The moft elevated region of this divifion lies in the road between St Peterfburgh and Mofco, and is commonly called the mountain of Volday, though denominated by the ndtives Vhifokaya Ploitchade, or the elevated ground. This mountain is. fiat at the top, is furrounded with large fand hills, interfperfed with granite rocks, and has in its vicinity feveral lakes and growes. In this mountain are the fources of the rivers Dana, Volga, and Dniepr.

To the fouth-weft, bounding the fteppe of the Daiepr, lie the mountains of Taurida, which are rather romantic, from their adjacent fcenery, than remarkable for their height. Between them and the flores of the Black fea lie beautifol valleys, abounding with olives, figs, and pomegranates, while the fteepeft cliffs of the mountain are adorned with the red bark and evergreen foliage of the arbutus. Thefe vallcys are very productive in vineyards, and feed numerous flocks of ihcep and goats.

The largeft mountainous tract of European Ruflia is that of Olonetz, that lies between the Swedißs frontiers and the White fea. Tbis chain occupies a fpace of nearly $15^{\circ}$, or above 1000 Britith miles, running almoft due north. This chain is of no great height, but its northera part is covered with perpetual fnow. Thefe mountains are very rich in mineral products, which will be noticed hereafter.

The Uralian mountains that feparate European from Afiatic Ruflia, have been fufficiently defcribed in the article Geology, ${ }^{0}{ }^{1}{ }^{1} 31,135$.

The mountains of Afiatic Ruflia are more numerous and more important. They include the Aitaic chaid, the mountains of Savanik, of Yablonnoy, and Stanovoy, forming the fouthern boundary between the Ruffran and Cbinefe empires, and the claffical range of Caucalus, extending between, the Cafpian and the Black fea. Ot thefe, the Altaio chain has alfo been fufficiently defcria. bed under GeDIog y, $\mathrm{N}^{\circ} 132$; and as the other moun-. tains to the fouth and eaft may be confidered as a con-. tinuation of the fame chain, they need not occupy our attention in the prefent article.

The ridge of Mount Caucafus divides Ruffia from Turkey to the weft, and from Perfia to the eaft, and excends between the Euxine and the Cafpian for about 4 co Bri-tifh milcs. It is not of any confiderable breadth, being in no part mere thatn $20^{\circ}$ or 30 miles acrofs, and in come places not more then five or fix. Its height is confider-able, and its fummits are covered, with eternal ice and frow. The valleys at its foot abound in foreft trees;-1 and the bowels of the mountain contain veins of filvery. lead, and copper.

Among the mountains of the Ruffian empire we muil Vularices. not omit the voleanoes uf Kanutcbatka. The whale of this peninfala is divided lengthrife by a chain of lufty; rocky mountains, commonly covered witls fnow, and Ahooting into conieal fummits that very frequently cmit fmoke, and fometimes burft out into flame. We do not find, however, that they pour out lava, or water, like the European volcanoes. Many of them appear to be

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 extinch, but their former volcanic nate is evinced by the appearance of craters at their furmmits. In the neighbourhood of thefe volcanoes there are hot fprings, not inferlor in temperature to thofe of Iceland, and like thern throwing up jets of water with a great noife, but to an inconfiderable height.The feas that are connected with Ruffia are, the Arctic oceani, and that part of the Pacific which has been called the eaftern Archipelago, forming its northern and caftern boundaries; the inland feas of the Baltic, the Black fea, the fea of Azof, the Cafpian, the fea of Aral, and the fea of Okhoth. Some account of thefe, except the fea of Okhotk, will be found under their refpective articles in this work.

The fea of Okhotik may be confidered as a large gulf lying between the peninfula of Kamtfchalka to the eaft, and the country of the 'Iungoufi to the well. Its entrance from the Pacific ocean is clofed by a chain of mall iflands, called the Kourilkic iflands, and within thefe are the two large iflands of Ezzo and Sackhalin. Is principal port is Okhotk, at the mouth of the fimall river Okhota, and to the north-eaft it has a confiderable branch called the fea of Pengina.

The fhores of Rulfia are hollowed out into numerous indentations, forming feveral important bays and gulfs. The moff remarkable of thefe are, the gulf of Finland in the Baltic, that of Archangel in the White fea, the bays of Oby and of Eniffy in the Arctic ocean; the bay of Anadhir in the eaftern Archipelago; the large gulf of the fea of Okhotzk, callcd the fea of Pengina, and the harbour of St Peter and St Paul in the fouthern extremity of Kamtfchatka.

This extenfive empire is watered by numcrous and important rivers, which traverfe it in every direction. Thefe we noll clafs, not according to the divifions of the empite the ugh which they pafs, but according to the feas or occans into which they flow.

The rivers which flow into the Baltic are, the Duna and the Neva. Tin which fall into the White fea are the Onega and the Drina to the weft, and the Keiloi and the Mefen to the eaff. Into he Arctic ocean flow the Cara, the Pethora or Pu'fhaia Peifhora, the Oby, which receives the Irtyh; the Tobol, the Yeniffy, the Khatanga, the Lena, the Yana, the Indighirka, and the Kolyma. Thofe which f.w. into the eaftern Pacific are, the Anadhir and the Komtichatka. Into the Cafpian fea fall the Yemba or Emba, the Ural or Yaik, the Volga, receiving the Kamma, and the -Okka and the Terek. Lafliy, there flow into the Black fea, the Khuban, the Don, the Dniepr or Nieper, the Bog or Bogue, and the Dnieftr or Niefter. Of thefe rivers we have already given an account of the Don, the Dvina, the Irtyff, the Lena, the Nieper, the Niefter, the Ohy, and the Onega, under their refpective tilles, and an account of the Volga will be found under that head. We fall here add a brief view of the remaining rivers.

The Duna, fometimes called the weflern Dvina, rifes between the provinces of PRov and Smolenk, and takes a north-wefterly courfe for about 500 miles, till it falls into the Baltic at Riga. This river has fome con-
fiderable and dangerous falls; and when the ice breaks up on the approach of warm weather, valt quantities of it are hurried down the ftream, fo as frequently to do much injury to the port of Riga.

Of thofe rivers which flow into the Arctic ocean, the Cara is one of the moft inconfiderable, were it not that it completes the boundary between Europe and Afia to the north. It runs from the Uralian mountains to the fea of Karfkoye, a dillance of about 140 miles.

The Petihora rifes in the Uralian mourtains, in the government of Vologda, runs acrofs the government of Archangel, and falls into the Arctic ocean at Pooflozertik, after a courfe of aboul 450 miles.

The Tobol rifes in the cbain of mountains that feparate the government of Ufa from the country of the Kirghifzi, and empties itfelf into the Irtyf at Tobols, after receiving numerous tributary ftreams.

The Yenify, or Enyff, is formed by the junction of two rivers, viz. the Kamiara and the Veikem or Baykema, uhich belong to Clina. It firf enters the Ruffian dominions, where alone it has the name of Yenify, at the mouth of the Bon-Kentifyyng, and after running northrwad, and forming a bay containing feveral iflands, it falls into the Arctic ocean about $2^{\circ}$ eaftward of the mouth of the Oby.

The Khatanga rifes from a lake in the government of Tobolfk, and falls into a large bay of the Fiozen ocean, called Khatanfaia Guba. Its courfe is thruugh a low and vers marfly country.

The Yna rifes from a little lake in about $64^{\circ} \mathrm{N}$. lat. and after making fome fmall lurns, iuns northward to the Arctic ocean, forming five confiderable arms that empiy themfelves into a capacious bay.

The Indighirka rifes near the fource of the Yana, but on the other fide of the mountains. At its $\in$ flus into the Aictic ocean after a courfe of 1200 verfts, (B) it forms four great arms.

The Anadhir rifes in the country of the Tfchutchki. Its bed is fandy, its channel very broad, and its current flow. It is fo thallow that it can fcarcely be croffed by the common ferry boats of the country, though thefe draw no more than two feet of water. It takes its courfe through a flat country, which on the north fide of the river is deftitute of wood, but overgrown with mofs, affording pafture to innumerable herds of rein deer; but on the fouth well wooded and abounding with rerdure. It falls into a confiderable bay a little fouth of the tropic of Cancer, called the bay of Anadhir.

The Kamtfchatka takes a fhort courfe from fouth to north, along the peninfula of that name, till, not far fr. $m$ its mouth it turne to the fouth-eaft, and falls into a bay nearly oppofite to Bhering's ifland.

The Amoor was formerly reckoned among the rivers of Ruffia, but was lately ceded entirely to China.

Of the rivers that fall into the Cafpian fea we have to notice the Yemba, the Ural, and the Terek. The firt of thefe rifes in the moft fouthern part of the Uralian chain, and is the moft eaftern of all the rivers that fall into the Cafpian. It forms part of the boundary between the country of the Kirghithes and the Uinakoy government. The Ural or Yaik is a river of confider-

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able importance. It riles in the Uralian mountains, in the government of Ufa, and after paling by Orenburg, and receiving leveral ftreams, it flows into the Calpian at Gourief. Its name is faid to lave been changed from Yaik to Ural, on account of a dangerous infurrection of the tribes that inhabited its barks. The 'derek origitaies in Mount Caucafus, on the higheft ridge, that form the frontiers of Georgia. Its courle is rapid, and in the autumn the melted flows ruffs down from the mountains in fuck torrents into the plain beneath, as to fuel this river eight or ten feet above its ufos! level, fo that it overflows the adjacent country, and not unfrequently finis its bed. It falls into the Caspian Kizliar, after forming two branches, with a confiderable inland e ween them.

The Kw in and tire Bog e are the only important rivers of the fo rich flow into the Black lea, that have not been noticed in their places on the general alphabet of this work. Of there the Kuban, anciently dinominated Hypanis, riles at the foot of Mount Caucafus, and is formed chiefly by the confluence of feveral mribuiary itreams. It takes a direction nearly weltward, running along the parallel of $45^{\circ} \mathrm{N}$. Lat. and falls into the Black lea, oppofite the ifle of Taman, in the traits of Kia. Lis itream is moth and gentle, not obltructed by waterfalls, and, though not deep, is well adapted to purpofes of inland navigation. Its banks are fertile, and near its fource are confiderable forefts.

The Bogue rifes in Poland, and formerly conftituted part of the boundary between that kingdom and the Ruffian empire, as at prefent towards its mouth it forms part of the frontier between Ruffia and Turkey. It falls into the Black fee at Otchakof.

The Ruffian empire, confidering its fize, does not abound in lakes. There are proportionally molt numenous in European Ruffing, where we find the lake of Imandra in Ruffian Lapland; thofe of Ladoga, Onega, and Peipus, in the neighbourhood of St Peteriburgh; Bielo-Ozero, or the White Jake, in the government of Novgorod; and thole which give rife to the river Volga, the principal of which is Seliger, in the government of Tver.

The Afiatic lakes are not numerous ; but one of them, the lake or fea of Baikal, is highly important from its magnitude, and from the commercial intercourfe which it promotes between the adjacent provinces. The other lakes of this past of Ruffia are there of Altyn-Noor, or the Golden lake, and of Alton or Telitzko.

Molt of the fe lakes have been already noticed under their proper heads in the general alphabet; but as the account there given, excepting that of Baikal, differs in forme refpects from the defcription of them by the latent geographers, we foal here add the account of the Ruffian lakes given by Mr Tooke.

The lake of Ladoga is fituated in the government of Vyborg, between the gulf of Finland and the lake of Onega, which in ancient times is faid to have been denominated Nebo. It is reckoned one of the largeft lakes in Europe, the length of it being about 175, and its breadth 105 verfls. It produces a salt number of feals. On account of the perilous forms to which it is liable, and the feveral fand banks that are ever fhifting their pofition, Peter the Great caufed the famous Ladoga canal to be dug along its fore, from the Volkhof
into the Neva, which canal is 104 vert long, 10 fa. Ruffing. jénes " broad, $I_{3}^{3}$ fajéne deep, and has 25 Alticos. By *A fajtnc the Neva the Ladoga is conneincd with the Baltic; "A A fart by the Swim with the Onega; and by the Volkhof with 7 leet the Ilmen. Into the can 1 flor the rivers Liplie, Englifh Mafia, Sheila, Lava, and Kabona; into the lake, the rivers lathe, sian, O xi, \&ic, whricas the Neva alone runs cut of it. B th faces of the lake belong to Ruefa, and thele have every where a flat coat and a fancy beach. On this fore it has ito a few low finery illands, and a fatty bottom. That part of the northern fide which lies in the government of Olonetz has marble on its call, whence forme of thole beautiful and durable kinds of liraill marble are brought to St Peter(burgh. As the bed of this lake, for a great extent, is in the loweft part of the country, it receives befides the above. mentioned rivers, the waters that come from the alumni hills; all of which have no other outlet than the Neva.

The lake Onega is fituated in the government of Onega, Olonetz, between the Ladoga and the White fa. Its length is between 180 and 200 verlts, and its breadth from 60 to 80 . Like the Ladoga, it contains a fer illands conffing of marble, and in all other properties is much the fame. With other rivers, th Vitegra falls into it on the fowh-eaft fade, which river takes its rife not far from the Kofsha, and this river falls into the Bielow ozero. On the Kofsha is the old Lad ga, and on the Vitegra, the old Viiegorfikaia, which are only about 49 verits afunder. Now; as from the Onega the navigable ri-; ven Sir runs into the Ladoga, and from the Bielo-ozera the Shekfna flows into the Volga, there reeds only at canal to be cut the faid diftance of 70 verfts, for connetting the Neva with the Volga, which would be much more convenient for the navigation here, than the palfage by Viflunoi-Volothck, becaufe there are no waterfalls, and therefore all the danger and crottle attending them in the prefent paffage would be oh riated.

The lake Peipus, called by the Ruffians Tlludkoc- peipus ozero, lies between the governments of Ifcove. lieval, Riga, and St Peterıburgh; is in length about 80, and in breadths about 60 verffs. It is connected with the Pfcove lake by a very broad channel, about 50 verfts in length. From this lake proceeds the river Narova, communicating through the Embach with the Verizerb, and from this latter runs the Fellin to the gulf of Riga, fo that an inland navigation might enfily be formed between like Peipus and the Baltic, though at presfont the commodities conveyed along the Narova to Narva, mut be carried a confiderable way by land, owing to the numerous falls in that river. In this lake there are a few foal iflands, one of which has three villages upon it, and is well furnifled with wood.

The Bielo-ozero, or White lake, is in the fame govern- Bielo- ${ }^{15}$ meat with the foregoing; is about 50 verlts long and ozero30 broad, and receives into it feveral faller ftreams. The only one that flows out of it is the Shekfna, which falls into the Volga. The water of this lake is clear, having a bottom partly clay and partly flory. The clay is generally of a white colour, and in fluty wearthe causes a flong white foam upon the furface of the water. It is doubtless from this circumflance that the lake firf obtained the name Bielo, or white. It abounds with fifth and crabs.

The lake Thant is fituated partly in the government TfharI. ${ }^{26}$

Runia. of Tobolfs and partly in that of Kolhyvan. It communicates with the lakes Mollki and Abiibkan, is of

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13 bare of wood.

## Climate

end feafons, an extent from north to fouth of nearly $40^{\circ}$, we may rationally conclude that the climate and feafons of fo vatt a tract mult be extremely diverfified. Accordingly we find that while the northern regions are expofed to almoft perpetual frofs, fome of the fouthern diftricts enjoy the pureft atmofphere, and the mildeft kgy . While the former is doomed to the utmoft fterility, the latter is fo fertile as to produce in the moft lavifh abundance all the vegetable riches of the moft favoured climates.

One of the lateft writers on the climate of Ruffia, M. Hermann, has divided the empire into four regions, which are thus dittinguifhed.

1. The very cold region, extending from $78^{\circ}$ to $60^{\circ}$ of north latitude. This region comprehends the governments of Vyborg, Olonetz, Archangel, Tobolk, the greater part of Irkutif, Yologda, a part of Perme, Novgorod and St Peteriburgh.
2. The cold region, extending from $60^{\circ}$ to $55^{\circ}$, and including the governments of Reval, Riga, Polotk, Picov, Tver, Mofco, Yaroflavl, Vladimir, Koftroma, Viztha, the greater part of Perme and Kazan, a part of Irkulk, Kolhyvan, Ufa, Simbirk, Nifhney-Novgorod, Kaluga, and Smolenk.
3. The moderate region, extending from $55^{\circ}$ to $50^{\circ}$, including the governments of Moghilef, Tchernigof, Orel, Kurfh, Tula, Tambof, Penza, the greater part of Kief, Khark of, Voronetk, Riazan, Saratof, Kaluga, Sinbirf Ufa, Kolhyvan, and a part of Irkutik, Kazan, Nillney Novgorod, and Smolenfe.
4. The hot region, extending from $50^{\circ}$ to the moft fouthern part of Ruffia, including Taurids, Ekatarinoflaf, the greater part of Caucafia, and a part of Kief, Kharkof, Voronet\{k, Saratof, Ufa, Kolhyvan, and Irkutik.

From the above enameration we find that one of the Ruflian governments pofferfes all the varieties of climate and feafon, and that many of them are fo divided as to
enjoy the advantages of two climates. We Chall defcribe the nature of the climate and changes of the feafon, as they occur in each of thefe divifions, confining ourfelves chiefly to the extremes of St Peterfourgh and Taurida, as being inot interefting.

In many diltricts of the firft region there is fcarcely any fummer ; for the three or four months in which it does not fuow, fcarcely deferve that name. As in moft parts of the globe, however, the eaftern diftricts of this region are much colder and more barren than thofe on the weftern fide; the fruits that come to maturity round St Peterfburgh, and in the government of $\mathrm{V} y$ borg, are not found under the fame latitude in Siberia. Even the weather of St Peterfburgh, however, is fufficiently rude, and the climate here is unfetlled and unfriendly. In the winter of 1798 and 1799, the coldelt ever known in that country, the mercury in Fahrenheit's thermometer ftood at St Peterfburgb at $39^{\circ}$ below 0 , and even at Mofco, the fame thermometer fluctuated during 35 fucceffive days between $-30^{\circ}$ and $-40^{\circ}$. The fpring in this region (i. e. about St Peterßburgh), has in general much froft, fnow, and rain ; but the fhort fummer is for the moft part fair and fine. The longeft day is here about $18 \frac{1}{\frac{1}{2}}$ hours, and the evening twilights are fo uncommonly luminous, as readily to enable perfons to read and write. The very fultry days are in general but few, and thefe are amply compenfated by the cool evenings, nights and mornings. The autumn has feldom many bright days, but is for the moft part cloudy, wet, and boifterous. The winter is always fevere ; and as the atmofphere is generally dry, even in fnowy weather, this feafon is fo healthy, that the fmalleft number of deaths is found to happen during winter. The fortelt day is only five hours and a balf, and though confiderable light is reflected from the fnow, yet when the atmofphere is cloudy, candles can be difpenfed with but for a very fhort time, During this feafon the river Neva, the lakes in the vicinity of St Peterfburgh, and even the gulf of Finland, as far as the iflands of the Baltic, are covered with ice, nearly a yard in thicknefs. On an average, there are annually from 150 to 190 days of frof, during which the ground is frozen to the depth of nearly three feet.

This feverity of climate, apparently fo inimical to health and comfort, is confidered by the inhabitants as one of their greateft bleffings. By the extent of ice and fnow, diftances are fhortened, or at leaft travelling is facilitated, fo that people, horfes, and carriages with the heavieft burdens, crofs the Neva, and the other rivers, lakes and canals in all directions. Ice cellars here form a neceffary of life, for by their means provifions of all kinds are preferved during fummer. Hence every houfe is provided with one of them; and in the beginning of February they are filled with large blocks cut from the tiver. The ice alfo promotes the amufements of the inhabitants, as we foall fhew in the fequel of this article. Indeed, fo effential is this feverity of feafon to the comfort of the inhabitants, that when the winter is unufually mild, the roads are nearly impafliable, and the provifions, which are always preferved in a frozen fate, can fcarcely be kept from putrefaction.

In this region the aurora borealis is very frequent, and its.corulcations. peculiarly vivid; ftorms of thunder

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Rufia. and lightning are neither numerous, violent, nor lafting; high winds are not predominant, and it feldom hails, though hoar-frofts are very cominon.

In the fecond region the fummer is indeed fhort in many parts; but in molt of thent it is fo warm, and the days are fo long, that the fruits of the earth ufually come to maturity in a fhorter time than in other places. The winter in this region, efpecially in the governments of Irkutk, Perme, Viætka, \&c. is in general very fevere.

In the third region the winter is alfo long and cold, erpecially in the governments of Irkutik, Kolhyvan, and Ufa. This, however, is owing rather to the lofty mountains with which thefe diftricts abound, than from their high degree of latitude. The governments belonging to this region in European Ruflia, however, ufually enjoy a flort and mild witter, and a fine warm fummer.

In the fourth region the winters are fhort, and, except in fome parts of Irkut \& and Kolhyvan, not very cold ; and the fummer is warm, and in many parts very dry. One of the moft delightful diftricts in this region is that of Taurid?, of which M. Pallas has given the following animated defcription.
"One of the mildeft and moft fertile regions of the empire is the beautiful femicircular and amphitheatral vale formed by the Tauridan mountains along the fhores of the Euxine. Thefe valleys, which are bleffed with the climate of Anatolia and the leffer Afia, where the winter is fearcely fenfible, where the primrofes and fpring-faffron bloom in February and often in January, and where the oak frequently retains its foliage through the whole winter, are, in regard to botany and rural economy, the nobleft traet in Taurida, and perhaps in the whole extent of the empire. Here, on all fides, thrive and flourifh in open air the ever-verdant laurel, the olive tree, the fig, the lotus, the pomegranate, and the celtis, which perbaps are the remains of Grecian cultivation; with the mannabearing afh, the turpentine tree, the tan-bark tree, the ftrawberry tree from Afia Minor, and many others. This laft particularly covers the fleepeft cliffs of the fhore, and beautifies them in winter by its perpetual foliage, and the red rind of its thick ftem. In thefe bappy vales the forefts confift of fruit trees of every kind, or rather they form only a large orchard left entirely to itfelf. On the flores of the fea the caper bufhes propagate themfelves fpontaneoufy; without the affifance of art the wild or planted vine ferms climb the loftieft trees, and, twining with the flowery five leaved ivy, form feftoons and hedges. The contraft of the orchards, and the rich verdure, with the beautiful wildnefs prefented by the adjacent mountains and rocks, which in fome places rife among the clouds, and in others are fallen in ruins; the natural fountains and cafcades that agreeably prefent their rubling waters; lally, the near view of the fea, where the fight is loft in the unhounded profpect; all thefe beauties together form fo picturefque and delightful a whole, that even the enraptured mufe of the poet or the painter would be unable to conceive a more captivating fcene.
"In thefe enchanting vaileys, to the henefit of the empire, which nowliere pulfeffes fo five a climate, might the ufeful products of Afia Minor, and of the fouthern parts of Eurnpe, be made indigenous. The fuperior
kinds of fruits may be produced here without trouble, and are for the inott part fo already. The belt kinds of olive and fig trees may be cultivated here; and even the fefamum plant never decays- Orange, lemon, and citron trees, and particularly the cedrat, the moft excellent fpecies of them, would bear the winter extremely well with a little care. The vine would be confantly improving, if a judicious felection were but made of the flocks for planting, if greater attention were paid to the various effects of the foil and fituation of the vineyards, and if more care were taken in working the mult and keeping the wine. Fur the ufe of the apothecaries and manufacturers a number of excellent drugs and dyes might be produced, which are at prefent brought from the inles of the Archipelago, from Greece, from Afia Minor, and Perfia; feveral of them are now feen here growing wild. Likewife many hard and ufeful kinds of wood, efpecially coloured, fit for inlaid work, might here be propagated ; perhaps in fome tracts even the fugar cane would thrive *."
The productions of Ruffia would afford an ample field for the inveftigation of the naturalift; and this part of its natural hittory lias been fully illuftrated by the enlightened travellers who were lately employed in the examination of the empire. We can here give only a brief 跭tch of the refult of their inquiries.

In the central parts of European Ruflia are found tnimals. moft of the animals which are common to it with the reft of Europe. The fineft horfes here are thofe of Lithuania and Livonia, the former poffiffing great ftength, the latter excelling in fpecd. The fpirit and beauty of the Tartarian horfes have been long ceiebrated; and in the Taurida, where this breed is much cultivated, thefe qualities have been improved by the introduction of Turkifh and Arabian ftallions. Near Archangel, the horfes are fmall, and refemble thofe in the north of Britain. The country near Archangel is remarkable for fine pafturage, and an excellent breed of cattle; but indeed cattle abound in moft parts of the empire. The theep in the northern provinces are of a middle fize, with fhort tails and coarfe wool; but thofe in the fouth are long-tailed, and their wool is of a fuperior texture: but the belt wool is procured from the diftrict of Kazan. We have feen that the province of Taurida abounds in fheep, which conftitute the chief riches of the inhabitants. Some opulent farmers in this diftrict poffefs 50,000 fheep; and roos is by no means an uncommon flock. Goats and fivine alfo abound throughout European Ruffia; and the rein-deer is not unknown in the moft northern governments. In the north, too, are found the elk, the wolf, the lynx, and the fea bear; and in the moft fouthern diftrits the camel is fometimes met with.

Afiatic Ruffia is remarkable for the rein-deer, which there performs the office of the horle, the cow, and the fheep. In the fouth are found the wild horfe, and the wild afs; while the argali, or wild fleeep, is oflen hunted in Siberia, and the regions of Mount Caucafus prefent the furious bifon. Here, tor, are feen the ibex, and the chamois. Near Lake Brikal are found the ftag, the mukk animal, and the wild boar; and on the banks of the Yenifly is feen the beaver. Welruffes baunt the thores of the Aralic ocean, and feals are found in moft of its bays and inlets. In Siberix, in the provinces of Yakutk and No Cchinok, and in Kanit-
fchatka,
*Tooke's

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Ruffic fchatka, the hiunting of fables forms, during part of the year, the chief occupation of the inhabitants; and their lkins, when procured perfectly entire, are faid to be worth rol. each. The flsins of the black fox are alfo highly efteemed, as, according to $\mathrm{M}_{\mathrm{r}}$ T Tooke, one of them is fometimes fufficient to pay the tribute of a village. The bear is found in the neighbourhood of the Uralian mountains, and the civet cat in the Altai chain. The wild boar grow's here to fuch a fize, that its tulks

* Pinker-
ton's Geograthy, vol. ii. p. ${ }_{5} 5$ are faid fometimes to weigh 600 pounds *. The hories of the Mongul Tartars are of fingular beauty, fome of them being ftriped like the tiger, others fpotted like the leopard. The fud of a noble Mongul fometimes contains 3000 or 4000 of thefe animals. The principal Nomadic hordes of Aliatic Ruflia, viz. the Tartars, Monguls, and Mandfhurs, not unfrequently regale on horfe-flefh; but they do not, as is cummonly reported, eat it raw. The cattle of this divifion of Ruffia are of a middling fize, and are commonly employed for draught, and even fometimes for carriage.

The whole empire abounds with wild fowl and game of all forts; and in the more folitary regions of Mount Caucafus, and on the Uralian and Altaian chains, there are numerous birds of prey. The external parts and provinces of the empire are well fupplied with fea filh from the northern ucean, the Baluc, the White fea, the Black fea and the Cafpian; and the numerous lakes and sivers yield immente quantities of falmon, tront, pike, flurgeon, and belluga (a large fifh from whofe roe is made the belt caviare). Innumerable fwarms of infects are hatched by the fummer's heat in the fands, moralles, and foreits; and are faid to be fo troublefome as to render great part of thefe regions almoft uninhabitable.
Vegetables.
Nerely to enumerate the chief vegetable productions of the Ruffian empire, would far exceed the limits of our plan. We fhall therefore only mention the molt important. In the forelts are found the fir, the Scotch pine, the larch, the elm, the birch, the alder, the greater maple, the fycamore, the oak of varions fpecies, the black and white poplar, the afh, the hornbeam, the beech, the nettle-tree, the cedar, and the cyprefs. Of fruit trees and thrubs, the moft remarkable are, the almond, the peach, the apricot, the medlar, the walnut, the mulberry, the olive, the fig, the vine, and the pomegranate. In fome parts of Afiatic Ruffia are found, befides, the quince, the date, the jujube, and the wil-low-leaved pear ; and many other fhrubs and plants, which in our climate require the aid of artificial heat, are, in the fouthern provinces of Rullia, produced fpontaneoufly.
Minerals.
Ruffia is not lefs rich in mineral productions, of which Siberia in particular contains a great variety. In the brief fketch of Ruffian mineralogy which we can here offer, we fhall confine ourfelves chiefly to the metallic mines. Of thefe there are few in European Ruflia, and thofe principally of iron. It appears that there was formerly a gold mine near the river Vigg in the northweftern corner of the empire; and in the year 1739, gold was difcosered in the fame region, in the mountains of Olonetz; but the product was farcely fufficient to indemnify the government for the expence of working the mine, not more than 57 nounds of gold having been procured within the year. The richeft iron mines in European Ruffia, are about 60 miles from

Mofco; and in the government of Perme are worked mines, boih of iron and copper.

In Siberia there ase valuable gold mines, efpecially thole of Cathaineburg, on the ealt of the Uralian mountains, in the latitude of about $57^{\circ}$, where an office for the management of the mines was cflablihed by Peter I. in 1719. Several mines of different metals extend to a confidesable dillance on the north and fouth of Catharineburg; and there are in this diftrict above 100 founderies, chiefly for copper and iron. The principal gold mines in this diftrict are thofe of Berefof, a few miles north-ealt of Catharineburg, near the river Pyfhma, that falls into the Tobol. The gold is fometimes found native, but is generally mixed with various fubflances, efpecially filver. These are other mines in Kolhyvan and Nerfhink, chiefly of lead and filver, with a fmall proportion of gold. The former of thele were difcovered in 1704, and the latter in $17 \nmid 8$. In the mines of Berefof is found the red lead of Siberia; and in the copper mines, about 30 miles fouth of Ca tharineburg, that particular ore called malachite, or flalactitic copper, is found in great perfection. There are allo copper mines in the Altai mountains, where dendritic copper is met with. The richelt iron mines in this part of Ruffia are in the neighbourhood of the Uralian chain. The large mafs of native iron which we have mentioned under GEOLOGX, $\mathrm{N}^{0} 165$, was found by Profefor Pallas in Siberia, near Mount Emor or Nemir, not far from the river l'enifiy.

Rock falt is found in feveral parts of Siberia, effecially near the Ilek, not far from Orenburgh. Coal is a rare production in Rufiz ; but it is found near Lake Baikal, and in the fteppe between the Don and the Volga. Sulphur, alum, fal ammoniac, nitre, and natron, are found in great abundance.

There are alfo found in Siberia various gems, which we mult not omit to notice. Thefe are difcovered chiefly in the mountain Adunthollow, in the province of Nerthindk or Daouri, not far from the Chinele rives Argoon. Here are found common topazes, the byacinth, the Siberian emerald, the beryl, the onyw, and beautiful red and green ja:pers. Near Cathatizeburg are the gem mines of Mourfintfky, where are found the beryl and the chyylolite. Near Lake Baikal red garnets are very common; and there are allo found lapis lazuli and the baikalite of Kirwan. The opal is faid to be found in the Aliai mountains.

The mineral fprings of Ruflia are found principally Minerat ${ }^{24}$ in the Agatic part, efpecially in Kamtichatka. 'Tlie waters. only European mineral waters that merit particular notice are, a hot fpring near Selo Klintichy, in the government of Perme; a noted chalybeaie fpri) $g$ in the village of Vingova, in the district of Olonetz, diltinguifhed by Peter the Great, and called by him St Peter's Well, and another chaly beate fpring, or rather affemblage of frings flrongly impregnated with iron, dilcovered in 1775 , near Sarepta on the Volga. In the diftrict of Perekop and the ifland of Tamstr, belonging to the government of Taurida, there are fprings of naphtha. Springs impregt ated with naphtha end petroleum are alfo found near Lake Eaikal. At Sarepta there is a fulphurous furing, and there are feveral others in Siberin. On the 'Terek, towards Monnt Citucafus, are warm fprings that furve as baths; and funilar laths

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occur in the province of Nerfhinfs, in the territory of the Kalmuks, to the fouth of the Altai mountains, and in the neighlhourhood of Baikal. Chalybeate waters ate found among the iron mines near Catharineiourg, and a few occur in the province of Daouria.

The principal hot baths of Aliatic Rufia are in Kamefchalka, and are formed by the hot fprings noticed in $\mathrm{N}^{\mathrm{O}} 7$. The chief bath of this kind is in the fouthern part of the peninfila near Natclikin. The hot waters here fall in a rapid cafcade, about 300 feet below which they are collected into a bafon fix or feven feet broad, and 18 inches deep. The water is extremely hot, and is faid to contain vitriolic and uitrous falts.

Before we conclude what may be called the permanent geography of Ruffia, we mult enumerate the iflands that belong to this extenfive empire, and particularly notice fuch of them as have not been defcribed in other parts of this Encyclopredia.

In Europe the Ruffians poliefs the illands of Oefel and Dago in the Baltic, and the little illand of Cronfladt at the entrance of the gulf of Finland, the iflands of Novaya Zemlia, and feveral linaller iflands in the Arctic ocean ; and though the dreary ifland of Spitzbergen is generally confidered as belonging to Denmark, it is at leaft equally fhared by the Ruffians, fome of whom regularly winter here, o: account of the whale fiflery.

In Afiatic liuflia we may enumerate the Aleutian (Aleout (kie or Fox) iflands, of which Bhering's ifland is the only one deferving particular notice; the Andrenokian iflands, about 500 miles to the fouth eaf of Bhering's iffand, and the Kurile or Kurilian iflands, extending from the fouthern promontory of Kamtichatka towards Japan.

The ifland of Dago, but briefly noticed in our general al phabet, is for the mof part rochy, and its weftern thore is fandy ; but the fouthern and eaftern parts confift of a bluith clay, and are very fertile. They produce confiderable quantities of barley, efpecially in rainy feafons; but it is found neceflary to fow the feed very early in the fpring. There are here feveral forefts, elpecially one of alders, which is feen at a great diffance, and ferves as a landmark. Tlis ifland is extremely populous, and very healthy. It is inhabited chiefly by Ethonians. The fea round Dago abounds with flallows, rocks, and fand banks, that render the navigation dangerous; but to prevent thips from being ffranded on the coaft, a lighthoufe has been erected on the weftern promontory, about three miles from the fea,

Oefel is much more confiderable than Dago, being nearly 80 miles long, and about 60 at its greateft breadth. Its foil is naturally more barren than that of Dago, being chiefly fand, or lomm and clay; but as it is well manured, the crops are pretty confiderable. Thefe confif of wheat, rye, and barley, and in favourable feafons, oats and peafe. Oefel abounds in quarries, from which are procured excellent limeflone, black and gray flagfone, and grindftones. Marble is alfo found, but is nol much efteemed.

The iflands of Novaya Zemlia, or the New Land, confitt chiefly of two very large infulated tracts, nearly alike in fize and figure, extending between $49^{\circ}$ and $68^{\circ}$ of eaft longitude, and between $70^{\circ}$ and $77^{\circ}$ of north latitude. They are feparated from the main land by the ftrait of Waigats. They may be eftimated at 600 miles in length, by a medium breadth of nearly 400 . Yet
this large tract of coustry is defert and uniuhabitcod, except by reindeer, polar bears, white and blue foses; and on the coalt feais and walruftes. The iflands are well fupplied with water, but are rocky and detlitute of wood except a few itunted bufhes. On the narthern fide they are encompafed with mountains of ice. In thefe dreary regions the lin is not feen for ncarly four months, viz. from the middle of October to February. Bhering's ifland is fituated in the fea of Kamticha:ka, Bhe? about $3^{\circ}$ to the eaft of that peninfula, extending from Bhenng's $55^{\circ}$ to $56^{\circ}$ of N . Lat. It was difcovered by Bhering in $174^{\circ}$. It confifts of a range of bald cliffs and hills, rumning north and fouth, the highelt of which are nearly 1000 fathums above the level of the fea. Thele roxks confit of granite in the middle ridge, and a fanditone on each fide ; but fome of the lower appear to be covered with clay. This illand is entirely deftitute of wood, but is otherwife not bare of vegetation. It contains fprings of excellent water, and has feveral fine cataract:The cold is moderate, and thunder has never been oblerved, though it is faid fome fhocks of earthquakes have been felt. There are no human inhabilants; but the illand affords a dwelling to fea bears, arctic foxes, feals, and waltuffes. The Aleutian and Kurilian iftasds have already been defrribed under their refpective heads; and an account of Spitsbergen will be found under that article.

Ruffia was fcarcely known as an independent fate be. Origin of fore the latter end of the gth centary. We know, indeed, the Rullian that long before that peiod, namely about the $5^{\text {th }}$ cen-empire. tury, a horde of thofe nations that rowed at large on the banks of the Duieper and the Volkhof, eftablitied themfelves in that part of the region bordering on the Dnieper, where is now fituated the government of ki ei or Kiow: Thefe people were called Slavi, or Slavonians, and had advanced eaftward from the thores of the Danube. They appear to have laid the firf foundation of the Ruffian monarchy, and to have built Kief, where they fixed their capital. It is probable that about the fame time another tribe of Slavi had fetled flill farther to the eaft, in the province of Novgorod, where they buitt the city ftill knowa by that name, as their metropolis. Of the government and tranfactions of thefe people we have no regular accounts till the conclufion of the gth century. It appears, however, from a work of the emperor ConItantine Porphyrogenitus on the adminillration of the empire, that in his time the city of Novgorod nas a place of great importance, and carried on an extenfive commerce, both with Conttantinople and the countries bordering on the Baltic. The goverument of the Novgorodians appears to have been republican, but the people were probably rather merchants than warriors. We find them involved in frequent difputes with the ncighbouring nations, from whole ravages they liffered confiderable lofes.
If we may credit the Ruffum hiftorians, the Slavis rement that hrd fettled about Kief and Novgorod, mull have et the Vzextended the bound aries of their territory northwards as raginns 10 far as the fhores of the Ballic. We find that they were Ruffia. much harafed by a piratical nation who divelt on the coafts of that fea, and were denominated Varages or Varayians, and who made frequènt defcents on the Ruffian coafts, and ravaged the country. It is not improbable that thefe Varagians formed a part of the Scandinavian nations, who, under the names of Danes and

Saxolls,

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R:IFa Saxons, fucceffively made themfelves mafters of England. They were occafionally employed by the weaker neighbouring ftates as mercenary auxiliaries, and in this capacity they were once called to the afliftance of the Novgorodians, As is ufual, where a weak people requires the affifance of a warlike and powerful nation, the auxiliaries, after having overcome the enemies whom they were invited to combak, began to think of availing themfelves of the advantages which their bravery had given them over their employers. From allies and fervants they foon became the mafters of the Slavi; and finding the country about Novgored fuperior to that which they had left, they began to think of taking up their refidence in their new quarters.
Their leader Ruric built a town near the Volkhof, and furrounded it with a rampart of earth. This town is now called Old Ladoga. Here Ruric eftablihed the feat of his government. This event appears to have taken place about the year 860 ; and from this period we may date the commencement of the Ruffian monarchy. Ruric was affifted by two other chiefs of the Varages, Sinaus and Truvor, who are fuppofed to have been his brothers, and with whom he divided the territory of which he had poffeffed himfelf. Of thcfe, Sinaus took up his refidence at Bielo Ofero, or the white lake, while Truvor kept his court at Ifforfk, or according to fome, at Twertzog, in the diftrict of Plefkow. The three chiefs baviog tbus divided among them the territories of the Novgorodians, continued to reign in amity with each cther for feveral years.

The Slavi, however, did not fubmit to the dominion of their new malters, without an effort to regain their independence. At firit, aftonifhment at the unexpected proceedings of their auxiliaries overcame the firit of liberty which had hitherto actuated their minds; but they foon awakened from their letbargy, and determined to repel by force thofe whom they now confidered as the invaders of their country. They flew to arms, and chofe for their leader, Vadim, who by his feats in war had acquired the honourable appellation of the valiant. A fierce engagement took place between the Novgorodians under $V$ adim, and the Varages headed by Rurio and his brothers. The conteft ended in favour of the latter, and the brave Vadim, with feveral other chiefs of the Novgorodians, loft their lives in the attempt to free their country from its ambitious guefts. This nerv fuccefs emboldened Ruric to extend his territories, and to change the feat of government from the infignificant town of Ladoga, to the fpacious and opulent city of Novgorod. Soon after, by the death of his partners in the government, Ruric became fole monarch of the conquered territory, where he reigned without farther moleftation for 17 years, and became the primogenitor of a long line of defcendants, who held the fovereignty without interruption for feveral centuries. Ruric appears to have been zealous for the ftrict adminiftration of juftice in his dominions, and iffued his command to all the boyars who held territories under him, to fee it exereifed in an exact and uniform
manner. We are not informed of the nature of his inf. Rufsa. ftitutions; ner is it known whe ther the laws then exitting in his territories were merely oral, or were committed to writing.

Ruric affimed the tille of grand prince. His dominions extended over the prefent governments of Riga, Reval, Polotk, Pfoov, Vyborg, St Peteriburg, Novgorod, Smolen\&s, Olonetz, Archangel, Vladimir, Yarollavl, Koftroma, and Vologda.

As Ruric left only one fon, Igor, who was ftill a mi- $\operatorname{An}^{34} 870^{\circ}$ nor at his father's death, Oleg, a kinfman of the de-Regency of ceafed monarch, took on him the adminiftration of af-Oleg.
fairs. Either from the natural reftleffnefs of the Varages, or from the firit of rebellion manifefted by the Novgorodians, which indicated the neceffity of employing his people in fome active enterprife, the new monarch did not long remain idle. He appears very early to have projected the cxtenfion of his territories, by annexing to them the fettlement which the Slavi had formed about Kief, againft which he foon undertook a formidable expedition. He collected a numerous army, compofed of Slavi, Varages, and Tfehudes, carried with him the young prince Igor, and opened the campaign with the capture of Lubitch, and of Smolenks the capital of the Krivitfehes. (c)

Having reduced feveral other towns of lefs confe- Annexation quence, he advanced towards Kief, the poffeffion of of Kief to which formed the chief object of his ambition, as principathrough the Kievian territory he would have an eafy lity. paffage to the Grecian empire, by inroads into which he could gratify the predatory difpofition of his followers. Having advanced near the walls of Kief, he did not think it advifable to bazard an open attack, and thus leave to the precarious decifion of a battle the ultimate fuccefs of his favourite project. He therefore had recourfe to artifice, and leaving behind him the greater part of his troops, he concealed the remainder in the barks that had brought them down the Dnieper from Smolenik. Oleg himielf, difguifing his name and quality, paffed for a merchant fent by Oleg and his ward Igor on bufinefs of importance to Conftantinople; and he difpatched officers to Ofhhold and Dir, the two chieftains of the Kievians, requefting permiffion to pafs throngh their territory into Greece, and inviting them to vifit him as friends and fellow-citizens, pretending that indifpofition prevented him from paying lis refpects to them in perfon. The princes, free from miftruft, and relying on thefe appearances of friendthip, accepted Oleg's invitation, and fearcely thought it neceffary to take with them their ordinary attendants. They were foon undeceived; for when they arrived at the regent's encampment, they were quickly furrounded by the Va ragian foldiers, who fprung from their place of concealment in the barks. Oleg taking Igor in his arms, and cafting on the fovereigns of Kief a frerce and threatening look, exclaimed, "You are neither princes nor of the race of princes; behold the fon of Ruric." Thefe words, which formed the fignal that had been agreed

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Rufini. on between Oleg and bis foldiers, were no foomer uttered, than the latter rufhed on the two princes, and laid them proftrate at the feet of their mafter.

The inhabitants of Kief, thrown into confternation by this bold and treacherous aet, made no refiftance, but opened the gates of their city to the invader; and thus the two Slavonian flates were united under one head.
${ }^{36}$
Firft Ruffian expedi

## tion againft

nopie.

Having thus made bimfelf mafter of the key to the eaitern empire, Oleg prepared to carry into effect his ambitious defigns againft Confiantinopla. Leaving Igor at Kief, he himfelf embarked on the Dniepr with 80,000 warriors, on board of not fewer than 2000 veffels. Their pallage dorwn the river met with no obffruction, till they came to that part where its courfe is embarraffed for nearly 15 leagues by feven rocks; and here began a feries of perils, labours, and fatigues, which none but barbarians could have overcome. They were obliged to unload their barks, and convey them over the rocks; and in particular at the fourth rock, they carried their baggage for above 6000 paces, expofed to the perpetual rilk of attack from the neighbouring nations with whom they were at war, while thus hampered and encumbered. Having at length paffed all the rocks, and reached the mouth of the Dniepr, Oleg drew together his fcattered veffels at a fmall inland that lies between the points of Otchakof and Kinburn, where he caufed them to be refitted, and waited for a favourable wind to carry bim acrofs the Black fea to the mouth of the Dniefter. Here the veffels were again refitted, and hence the expedition coafting along the fhores of the Euxine, foon arrived at the ftrait of Conftantinople.

The inhabitants of the imperial city, on difcovering the approach of the barbarians, had drawn a mafly chain acrofs the harbour, thus boping to prevent their landing. In this hope, however, they were deceived. The invaders drew afhore their barks, fitted wheels to their flat bottoms, and converted them into carriages, which by the belp of fails they forced along the roads that led to the city, and thus arrived under the walls of Conflantinople. In their route they ravaged the whole country, and pillaged and demolithed the houfes, loaded the inhabitants with irons, and committed other enormiiies which generally attend the incurfions of a barbarous enemy. The earth that had been fertilized by the fweat of the hufbandman, was now drenched with his blood, and the fea received, as in one vaft grave, both the carcafes of the dead, and the bodies of the living. The weak Leo, who then fwayed the feeptre of the Grecian empire, inftead of making a manly refiftance, is faid to have attempted carrying off his enemy by poifoa; but this not fucceeding, be was obliged to purchafe from the conquerer an ignominious peace. Thus, even at that early period, the fovereign of Ruffia triumphed over the emperor of Conflantinople, and Oleg acquired the full completion of his wifhes, by the rich bootv which he earried off. He made his entrance into Kief on his return, laden with the wealth acquired hy his vietory; and the people, dazzled with fuch fplendid objects, imagined their prince to be endowed with fupernatural powers, and looked up to him with a reverence approaching to adoration.
Soon after his return to his own dominions, the RufGaari mosarch difpatched deputies to Conflantinople, with the articles of a treaty which he required the Greek emperor to fign *. This treaty, which is pre-
ferved ini the Chronicles of Neftor, is estremely curious; Ruffis. and we learn from it many important particulars refpecting the internal poliey of the Ruflians at the beginning of the tenth century, Several-articles of this treaty fhew, that the Ruflian laws laid great Atrefs on oaths; that they pronounced the fentence of death againft the murderer, inftead of inflicting on hin only a pecuniary fine, and thus allowing the rich to commit affaffination with impunity; that wives were allowed a part of the eftates of their hurbands; that the puniflument of offences did not extend to the entire confifcation of goods, and hence the widow and orphan did not fuffer for a crime of which they were innocent ; that robbery, which attacks only property, was punifhed by the privation of property, fo that the Ruffian laws maintained a juft proportion between the crime and the penalty; that the citizens, fecure in their poffeflions, were under no apprehenfion that the fovereign would feize on their heritage, and might even difpofe of their effects in favour of friends.

Oleg maintained the fovereign power for 33 years, nor does it appear that Igor, even after he obtained the age of majority, had any fhare in the government, till the death of his guardian, in 913, left him in full poffeffion of the throne.

Igor had reached his 40 th year before he entered on the government. He foon difcovered marks of the fame warlike fpirit which had actuated his predeceffor. A- Igor. mong the nations that had been fubjugated by Oleg, feveral, on the acceffion of a new fovereign, attempted to regain their independence; in particular the Drevlians, who dwelt on the banks of the Ufcha, in the prefent diftriet of Vrutfch, were the firft to rife in revolt. They were, however, foon quelled, and punithed by the impofition of an increafed tribute. The Uglitches, who inhabited the fouthern bank of the Driepr, maintained a longer conteft for their liberty. One of their principal towns fuftained a fiege of three years, and at laft fubmitted on condition of the trilling tribute of a marten's Ikin blackened by fire ; as thele furs were valued in proportion to the darknefs of their colour.

Igor foon had to contend with more formidable enemies. The Petchenegans, a nation hitherto unknown, quitted their fettlements on the Yaik and the Volga, and made incurfions into the Ruffian territory. Thefe people appear to have been at leaft as powerful and warlike as the Varages; and Igor finding himfelf unable to cope with them in arms, concluded a treaty of alliance. About five years after, difputes arofe between the new allics, and both had recourfe to arms. It appears that the Ruffians were finally victorious, and the Petchenegans were, for fome time, dilabled from giving lgor any farther moleftation.

The Ruffian monarch, in imitation of his guardian, An. 94 r. foon turned his attention towards the Grecian empire, Second c $x$ where depredations might apparently be made with im. Fedition punity. He equipped an immenfe armament, confift- conflantiing, as we are affured by the Ruffian annals, of 10,000 nople. barks, each carrying 40 men, thus forming an army of 400.002 warriors. With this immenfe force he fet lail for Coinfantinople, without any previnus declaration of war, and without any oftenfible raotive for thus infringing the treaty that had been concluded fome years before between Olig and Leo. In his route he overran and ra. vaged the provinces of Papblagonia, Puotus, and Eit

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RuTila. thynia, flundering the towns, and butchering the inhabitants. For fonae time the barbarians met with no oppofition, as the imperial troops were engaged in diftant provinces; but the government of the empire was now in very different hands from thofe which held it during the former invafion. The Grecian forces were well appointed, and commanded by two generals of approved ability and courage. Thefe were Theophanes and Phocas, of whum the former commanded the fleet, and the latter the army. The Ruffians had foon caufe to repent their temerity. Theophanes attacked them on board their fhips, within fight of the Pharos, and throwing among them the unquenchable Grecian fire, with the effects of which they were wholly unacquainted, threw them into fuch confufion, that many plunged into the fea to avoid the fires that threatened and purfued them. Their veifels were difperfed, fhattered, or confumed by flames, and great numbers of their crens perifhed. The remainder reached the fhores of $\mathrm{Bi}-$ thynia; but before they could recover from their coniternation, they were met by Phocas, who fell upon them with his troops, and made prodigious flaughter. So great were the loffes fuftained by Igor in this unfortunate expedition, that he carried back with him fcarcely a third of his army. This fecond naval expedition of the Ruflians againtt Conftantinople took place in 941.

Though difcouraged by the ill fuccefs which had attended his firtt invafion of the Grecian empire, Igor was too much ftimulated by the defire of plunder, not to rilb a fecond attempt. Three years after, he collected new forces, took into pay many of the Petchenegans, and again fet out for Greece; but before he had advanced beyond the Taurican Cheifonefus, the emperor Romanus, informed of his approach, and not choofing to hazard the refult of an engagement, fent deputies to the Ruffian leader, offering to pay him the fame tribute which had been given to his predeceñor. With this offer Igor complied, and once more retired with his army.

Igor was now far advanced in years; but the infatiable rapacity of his officers, ever craving frefh fpoils from vanquifhed nations, impelled him to turn his arms açainft the Drevlians, for the purpofe of obtaining from them an increale of their yearly tribute. In this unjult attack he was at firf fuccefful, and returned loaded with the contributions which he had levied from that peoplc; but having difmified great part of his troops "ith the fpoils of the vanquilhed, and marching with the remainder too far into the country, he fell into an ambufcade, which the Drevlians, now grown defperate, had formed on his approach in the neighbourhood of Koroflen. The Rugians were foon overpowered, and Igor being made prifoncr, was put to death.
Before the death of Oleg, Igor had married a princefs of a bold and daring fpirit, named Olga, by whom he had one fon, Sviatoflaf; but as he was very young at the death of his father, the queen mother Olga affumed the reins of government. Her firf care was to take fignal venseance on the unhappy Drevlians, for having bravely defend-d themfelves ag ainf the encroachments of tyianny and orpreffion. Thefe people, fatiffied wi h the death of their oppreffor, appeared ciefirous of renewine their amicable intescourfe with the Ruffians, and their chief, Male, is even frid to have made an offer of his hand to Igor's widow. Olga, with that deep cutu-
ning and concealed malice that fo ofien mark the character of the defpotic leader of a barbaious people, pretended to liften to their overtures, leccived the deputies of Male, but immediately ordered them to be privately put to death. In the mean time fhe invited a larger deputation fiom the Drevlian chice, which the treated in the lane inhuman manner, taking caie that no tidings of enther murder theuld be caried to the Drerlians. She then fet out, as if on an amicable vifit, to conclude the new alliance, and having proclained a folemn entertainment, to which the inviled fome hundreds of the principal imhabitants of the Drevlian towns, fhe caufed them to be treacheroufly affaffinated. 'I his was but the firt ftep to the more dreadful vengeance which fle had refolved to inflict on this deluded people. She laid wafte the whole country of the Drevlians, and in particular the town of Koroften, near which Igor had loft his life. For a long time fhe could not matier the place, as the inhabitants, dreading the horrible fate that awaited them, from the revenge:ul fpirit of Olga, defended themfelves with the utmoft valour and fuccefo. At length, being affured of clemency, on condition of fending to Olga all the pigeons of the town, they fubmitted; but Olga caufing lighted matches to be fallened to the tails of the pigeons, fet them at liberty. The birds flew to their ufual places of refidence in the town, which were fpeedily in a conflagration. The wretched inhabitants endeavouring to efcape the flames, fell into the hands of the Ruffian foldiers, planted iound the town for that purpofe, by whom they were put to the fword.

This was the only warlike tranfaction, if it deferves that name, which took place during the regency of Oiga. Though not uncommon in the annals of a barbarous people, it would have been fufficient to hand down her name with detcflation to pofterity, had fhe not, in the opinion of her panegyrifls, atoned for the enormity, by attempting to introduce into her dominions the Chriftian religion.

Hitherto the Slavi, and the Scandinavian nations who Relixion of had taken poffeflion of their territories, were Pagans, the Slavi. and their religious ceremonies, like thofe of all the furrounding nations, were marked by an abfurd and cruel fupertition, which, under pretence of workipping the Supreme Being, infulted his attributes, and increafed inflead of leffening the miferies of human nature. Their deities feem to have been borrowed, partly from the Greeks and Romans, and partly from the Scythians; but were characterized by peculiar names, and reprefented by idols of complex workmanflip and grotefque appearance. Thus, the god Perune, or Perkune, who was the chicf among the Slavonian deities, analogous to the Zeus of the Grecian, and the Jupiter of the Roman mytho'ogy, was perfonated by an idol whofe head was of filver, his ears and muflachios of mafly gold, his legs of iron, and his trunk of hard incorruptible wood. It was decorated with rubies and carbuncles, and held in its hand a fone carved, to reprefent the fymbol of lightning. The facred fire burnt continually before it; and if the priefls fuffeed this to be extinguifhed, they were doomed to perifh in the flames, as encraies of the god. Sacrifices of their flocks to this fupreme deity were regarded as tritting; his altar fmoked with the blood of captives, and exen the children of his wonhippers were fometimes inmolsted to appeafe his wrath or propitiatc his favour. Superfition has, in all ages, tinged the

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Runiz hands of its pontifs with blood, and has every where reprefented the $d$ ity as a cruel and malignant being, del:g ${ }^{1}$ ting in the Pectacle of fuffering thumanity.

I: is uncertain at what time the light of Chriflianity

Convelfion of Olga to Ciftianity. began to beam on the nations that occupied the banks of the Dniepr, nor are we acquainted with the circumflances that led to the converfion of the queen regent. We find, however, that about the middle of the $10 \mathrm{l}_{1}$ century, fhe undertook a juurney to Conftantinople for the exprefs purpofe of being initiatcd into the religion of Jefus. Comtantine Porphyrogenitus, who then fat on the imperial throne, received the royal convert with the greateth honour and refpeet ; himfelf cunducted her to the baptifinal funt, and, in the character of her fponfor, gave her the name of Helen. He difmiffed her loaded with rich prefents, confifting chictly of thufe fine ituffs which were then fabricated only in the eaft, and feveral coffly vales. In return for the honour the had received at Contlantinople, Olga promifed to fend the emperor a quantily of furs and wax, and to furnilh him with troops; but as the deliyed the performance of ber promife, Conftantine de!pat-hed an embafly to remind her of her engagements. We are told that the treated the ambaifadors with difrefpectful levity, and difniffed them with frigid complimetits; fo little change had baptifm effected on the ishlitious difpofition of the Rufian princefs! It is no wonder, therefore, if her example had little influence on her fon, or the nation at large. The Ruffians do not leem to have been very ardent in their religious obfervacions, or peculiarly attached to the opinions of their forefathers; but the nature of Chrittianity, and the character of its difciples, were not in, their eyes fufficiertly friking or alluring to produce any change in their religious fytem. Olga endeavoured to perfuade her fon Sviatoflaf to embrace her new religion; but cither from his contempt for the unwarlike character of the Greek Chriftians, or through fear of the ridicule to which his converfion might fubject him from his young companions, he difregarded her folicitations. He did not, however, prevent the people over whom he feems by this time to have affumed the chief dominion, from receiving baptifm, and a few profelyes were made. Though the character of O!ga, even after her converfion to Chrilianity, was by no means fuch as to intitle ber to the rank which ftee afterwards attained among the Ruffian faints, it appears that the had given her fon many wife and prudent inftructions refpecting the government of his future empire. She travelled with him round the country; fuperintended the erection of bridges and the making of rcads, for the benefit of trade and commerce ; built feveral towns and villages, and founded fuch laudable inftitutions, as fufficiently evince her ta. lents for governing a nation. She died about the year 969, at a very advanced age.

It is probable that $O \lg$ a retired from the adminiftra-
habitation in a camp, where he indulged himfelf in nothing more delicate or collly than what could be pocuied by the meaneff foldier in his army. Without a utenfil for preparing his food, he contented himfelf with cutting up the meat which was to form bis meals, and broiting it upon the cosls; and this meat ofien confilted of horle tieft. If he kent fo poor a table, be was not more delicately lodged. He had no tert, but flept in the open field, with a faddle for his pillow; a horfecloth for his covering, and lying on the bare ground, or at molt on a piece of the coarieit felt. How much influence fuch a moce of life muft have had on the minds of the barbarous foldiers whom he commanded, is fufficiently proved by the experience of times far pofterior to that of which we are now writing. The Swedita hero who, in the beginning of the 18 h contury, aftonifhed the whole of Europe with his mad exploits, fared in a fimilar manner, and, like Sviatonaf, became the darling of his troops. Soldiers willingly fhare dangers and death with a leader who fubnits himfelf to every hardhip, and denies himfelf every accommodation, except what he can enjoy in common with themfelves.

When Sviatollaf had thus ingratiated himfelf with his troops, he prepared to employ them in thofe ambitious projects which he had long been forming. His firlt expedition was againft the Kozares, a people who had come from the fhores of the Cafpian, and the fides of Mount Caucafus, and had eftablithed themfelves along the eaftern coalt of the Black fea. Thefe people had rendered tributary both the Kievians and the Viateches, a Slavonian nation that dwelt on the banks of the Oka and the Volga. Sviatollaf, defirous of transferring to himfelf the tribute which the Kozares derived from the latter people, marched againft them, and appears to have fucceeded in his defign. He defeated them in a pitched battle, and took by ftorm their capital city Sarkel, or Belgorod. It is faid by fome hiftorians, that he even annihilated the nation; and certain it is, that from that time no mention is made of the Kozares.

The martial fame of Sviatoflaf had extencied to Conflantinople; and the emperor Nicephorus Phocas, who was then haraffed by the Ungrians, affifted by his treacherous sllies, the Bulgarians, applied for fuccours to the Ruffian chicftain. A fublidiary treaty was entered into between them, and Sviatollaf hatened with a numerous army to the affiflance of his new ally. He quickly made himfelf mafter of moft of the Bulgarian towns along the Danube, and was fo elated with his faccefs, that he determined to remove the feat of government from Kief to the city of Perciallavatz, now Yamboly, feated on the fhores of that river. He was foon obliged, however, to poftpone the completion of this deffgn, on receiving intelligence that his old enemies the Petchenegans had affembled in great numbers, ravaged the Kievian territory, and laid fiege to the capital, within the walls of which were flut up his mother and his funs. Sviatoflaf haftened to the relief of his f:mily, hut before he reached home, the Petchenegans had been induced to raife the fiere by an artifice of the Kicvian general. Sviatoflaf on his arrival purfued the enemy, defeated them, and obliged them to fire for peace.

He now refumed his defign of eflablifhing him?alf on Hi* ${ }^{45}$ virion the bar.ks of the Dunube, and divided hic hereditary of th puns duminions ameng his childrea. He gave Kicf to Ya- paity.

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$\qquad$ tion of affairs foon after her converfion to Cliriftianity; for we find Sviatoflat in full poffeflion of the government long before his mother's death. This prince has been confidered one of the Ruflian heroes; and if a thirft for blood, a contempt of danger, and difregard of tbe luxuries and conveniences of life, be admitted as the charncterifies of a hero, he deferves the appellation. His private life was fuch as to render him the favourite of his army. Regarding the narrow inclofure of a palace as little better than a fplendid prifon, he took up his

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Ruffia, zopolk, the Drevlian territory to Oleg, and on Vladimir, a natural fon, born to him by orie of the attendants of Olga, he beflowed the government of Novgorod. On his return to Bulgaria, however, he found that his affairs had aflumed a very different afpect. The Bulgarians taking advantage of his abfence with his troops, had recovered moit of their towns, and feemed well prepared to refift the encroachments of a foreign power. They fell on Sviatoflaf as he approached the walls of Pereiaflavatz, and began the attack with fo much fury, that at firft the Ruflians were defeated with great flaughter. They, however, foon rallied, and taking courage from defpair, renewed the battle with fo much fucceis, that they in their turn became mafters of the field. Sviatollaf took poffeffion of the town, and foon recovered all that he had loff.

During thefe tranfactions the emperor Nicephorus had been affaffinated, and John Zemifces, his murderer, had fucceeded to the imperial diadem. The new emperor fent ambaffadors to the Ruffian monarch, requiring him to comply with the flipulations of his treaty with Nicephorus, and evacuate Bulgaria, which be had agreed to occupy as an ally, but not as a mafter. Sviatollaf refufed to give up bis newly acquired poffeffions, and prepared to decide the conteft by force of arms. The particulars of this campaign, and the numbers of the contending armies, are very differently related by the Ruffian annalifts, and the hiftorians of the Grecian empire; the former ftating that Sviatoflaf had not more than 10,000 men, and yet was victorious over the troops of Zemifces; while the Grecian hiftorians affirm that the Ruffians amounted to 300,000 , but were defeated, and compelled to abandon Bulgaria by the fuperior fkill and difcipline of the imperial troops. As far as refpects the iffue of the war, the Grecian writers are probably correct, for it is certain that Sviatoflaf retreated towards Ruffia with the flattered remains of his army. He did not, however, live to reach the capital, for having, contrary to the advice of his moft experienced officers, attempted to return to Kief, up the dangerous navigation of the Dnieper, he was intercepted by the Petchenegans near the rocks that form the cataracts of that river. After remaining on the defenfive during winter, expofed to all the horrors of famine and difeafe, he on the return of fpring attempted to force his way through the ranks of the enemy; but his troops were defeated, and himfelf killed in the battle.

It is faid that Sviatoflaf extended the boundaries of the Ruffian dominions by his conquefts in Bulgaria ; but if his expeditions in that quarter terminated in the manner which we have related, this extenfion muft have been merely temporary, and feems to have had little effect in increafing the power and refources of his fucceffors.

Yaropolk the fovereign of Kief may be confidered as the fucceffor of Sviatollaf on the Ruffian throne ; but his rcign was thort and turbulent. A war took place between him and his brother Oleg, on account of a bafe affaffination committed by the latter on the fon of his father's friend and privy counfellor Svenald. Oleg was defeated and flain, and the other brother, Vladimir, dreading the increafed power and ambitious difpofition of Yaropolk, abandoned his dominions, which were quickly feized on by the Kievian prince. Vladiwir had retired among the Varagians, from whom he
foon procused fuch fuccours as enabled him to make effectual head againt the ufurper. While his natural courage was thus increafed, his enmity againft Yaropolk received an additional fpur from an affront put on him by a lady whom he had fought in marriage, but who defpiling the meannefs of his birth, as being the fon of a llave, had rejected his propofals, and offered her hand to Yaropolk. The vindictive Vladimir, on being informed of this infult, attacked the poffeffions of the lady's father, put both him and his two fons to the fword, and obliged the princefs to accept his hand, yet rceking with the blood of her father. He now advanced towards Kief, where Yaropolk was by no means prepared to oppofe him. The Kievian prince had indeed been lulled into fecurity by the treacherous reports of one of his voyevodes, who was in the intereft of Vladimir, and who not only prevented Yaropolk from taking effectual meafures for his fafety, but found means to raife fufpicions in his breaft againft the inhabitants of his capital, which he thus induced him to abandon. The Kievians, left without a leader, opened their gates to Vladimir; and the wretched Yaropolk, ftill mified by the treachery of his advifer, determined to throw himfelf on the mercy of his brother. It is probable that this would have availed him little, as Vladimir feems to have determined on his death; but before he could reach the arms of his revengeful brother, Yaropolk was affaffinated by fome of his Varagian followers.
By this murder, which had probably been planned by Vladimir, the conqueror acquired the undivided poffeffion of all his father's territories, and maintained the fovereignty during a long reign, refpected at home, and feared abroad. Indeed, had not the commencement of his reign been fained with the blood of his father-inlaw and his brother, we might place him among the moft diftinguifhed monarchs of the age in which he lived, as he not only extended and enriched his empire, but was the means of eftablifhing in his dominions on a firm and lafting bafis, the Chriftian religion, which though introduced by Olga, appears hitherto to have made but a very trifing progrefs.
The commencement of Vladimir's reign formed but Reign of $4^{8}$ a continuation of thofe enormities which had conducted Yladimis him to the throne. He began with removing Blude, the Great. the treacherous voyevode, by whom his brother had been betrayed into his power, and to whom he had promifed the higheft honours and dignities. Accordingly for three days he fuffered Blude to live in all the fplendour of a prince. At the end of that period he thus addrefied him. "I have fultilled my promife; I have treated thee as my friend; the honours thou halt received exceed thy moft fanguine wifhes. To day, as the judge of crimes, and the executor of juftice, I condemn the traitor, and punifn the affaffin of his prince." Having uttcled thefe words, he caufed Blude to be put to death.

He difplayed fill more the perfidioufnefs of his character in his behaviour towards the Varagians, who had affifted in reinftating him on the throne of his ancellors; for on their requefting permifion to go and fcek their fortune in Grecce, he granted their requeft, but privately advertifed the emperor of their approach, and caufed them to be arrefted and fecured.

Vladimir engaged in numerous wars, ard fubjected feveral of the neighbouring fates to his dominion. He

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Sufiri. feized on part of the Polifh territories, and compelled the Bulgaiians who dwele in the difficts that now form the government of Kazan, to do bim homage. He fubduad the Petchenegans and Khazares, who lay in the immediate neighbourhood of the Kievian fate; he reduced to his authority Halitch and Vladimir, countrics which are now called Gallicia and Lubomiria; he conquered Lithuania as far as to Memel, and took poffeffion of a great part of the modern Livonia.

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 rabana $_{\text {a }}$.His conduet after thefe fuccefies by no mears prognofticated his future zeal for the Chriftian religion. None of the Rulfian monarchs appear to have been more devout in the adoration of their heathen deitics than Vladimir. It was ufual for him to return thanks to the gods for the fuccefs which they had granted to his arms; and to thew his gratitude by offering on their altars a part of the prifoners he had taken in war. On one occafion his piety extended fo far, that he refolved on feleeting one of his own fubjects as the object of his facrifice, thinking that he fhould thus more worthily teflify his gratitide for the fignal favours he had received from hearen. His choice fell on a young Varagian, the fon of a Chriftian, and who had been brought up in the new faith. The unhappy father refufed the demanded victim; the people enraged at deeming their prince and their religion infulted by the refufal, affailed the houfe of the Chriltian, and having burft open the doors, butchered both the father and the fon, folded in mutual embraces.

Yet this furious Pagan, and bloody warrior, afterwards became a moft zealous Chritian, and a fhining example to his fubjects of charity and benevolence. The circum? ances that led to thefe important changes are, as well as the martial achievements of this favourite prince, rclated with great minutenefs by the Ruflian annalifs, and give this part of their chronicles the air rather of a hiftorical romance, than a narrative of facts. We are told that the fame of Vladimir's military exploits had rendered him fo formidable to the neighbouring nations, that each conrted his alliance, and frove to render this more lafting by engaging him in the ties of the fame religion with themfelves. In particular the Grecian emperors fent to him a philofopher, whufe exhortations, though they did not at firft induce Vladimir to embrace the Greek ritual, at leaft fucceeded in giving him a favourable opinion of it; fo that the philofopher was entertained with refpect, and returned home loaded with prefents. We are alfo told, that, determined to act in the moot inpartial manner with refpect to the feveral religions which he bad been invitet to embrace, he difpatched perfons remarkable for their wifdom and fagacity, to vifit the furrounding nations, obferve the religious tenets and ceremonies that diftinguifhed them, and report to him the refult of their obfervations. On the return of thefe deputies, the report of thofe who had vifited the churches of Conftantinople, and witneffed the impofing fplendour of religious adoration, and the gorgeous decorations of the Greek priefs, in the fuperb bafilicum of St Sophia, proved fo fatisfactory to Vladimir, that he determined on embraciog the Chriftian religion according to the obfervances of the Greck cluych, Thongh he reful. ved on baptifm, he was ton proud to feek from the Greek emperor a prieft, by whim the Folemn ordinance might be performed. With a Cavage fecocity worthy
V'cl. XVIII. Pr.t I.
of the times in which he lived, he determined to gain by conqueft what his haughty foul difdained to acquire by requeft. He afiembled an army felected from all the nations of which his empire was compofed, and marching to Taurida, laid fiege to Theodolia, a tow:a even then of great repute, and which commanded the whole Cherfonefus, On fitting down before the walls of this place, he is faid to have ofered up the following characteriltic prayer: "O God grant me thy help to take this town, that I may carry from it Chriltians and priefts, to inltruct me and my people, and convey the true religion into my dominions." His prayer was at length granted; and, rather by ftratagem than force, he made himfelf matter of the town, and through it, of the whole Crimea. He might now have received baptifn ; but his defire of being iritiated into the Chriftian faith feems to have been excited more by andbition, than by true devotion. His ruling paffion pro. mifed to be amply gratified by an alliance with the Grecian emperors, as he would thus acquire fome legal claim on the territories which they poffeffed. He therefore demanded in marriage, Anna, the fifter of Bafilius and Conitantine, who jointly held the iniperial dignity, threatening, that if they sefufed his proftered alliance, he would lay fiege to Conftantinople. After fonie deliberation, the emperors complied, on condition, that Vladimir and his people thould bccome Chrittians; and thefe conditions being accepted, the Ruffian monarch was baptized, took the name of Bafilius, received the Grecian princels, and, as the reward of his vidories, carried off feveral popes and archimandrites, together with facred veffels and church books, images of fainte, and confecrated relicks.
Whatever might have been the confiderations that His later fwayed with Vladimir in his converfion to the Chriltian character. faith, it is certain that his new religion had the happicft. intluence on his future life and conducs. He not only abjured idolatry himfclf, and deftroyed the icols which he had caufed to be raifed in his dominions, bnt ufed every exertion to perfuade and compel his fubjects to foliow his example. Before his converfion, he is faid to have poffefed five wives, and $8=0$ concubines, but after he became a Chriftian, he maintained an unfhake:a fidelity towards the imperial princefs. As a Pagan he had been lavilh of human blood, and fet but a trilling value on the life of a man; but after he had adopted the religion of Jefus, he could fcarcely be perfuaded to ferntence to death a fingle highway robber. His former delight had been in ftorming towns and gaining battles; but he now found his greateft pleafure in building churches, and endowing feminaries of education. He encouraged the raiing of new cities and towns; peopled the wafte diltrias of his country with the priloners whom he had taken in war; and not only conducted limfelf as a fovereign who confulted the welfare of his dominions, but difplayed many amiable qualities that highly endeared him to his fubjects. On great feftivals, he was accuftomed to give entertainments to the inhabitants of the capital, and to fend refrelhmerts to thofe who were prevented, by fickncfs or infirmity, from attending the public featl. By thefe marks of regard to the general and inuividual interefts of his people, he constributed to wis them from the old religion, and to give them a tafte for the new doatrincs which he profef. fed. By flow ing that Chrilliarity had made him both

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Fuffic.
a milder and a wifer prince, he infured from his people a refpect for the new religion, while the itriking example of the fovereign and his nobles could not fail to influence the minds of the inferior orders. Having one day ifued a proclamation, ordering all the inhabitants of Kief to reoair next morning to the banks of the river to be baptized, the people cheetfully obeyed the order, obferving that if it were not good to be baptized, the prince and the boyars would never fubmit to the ceremony.

An. 1015 .

The eftablifhment of Chrifianity in the Ruffian dominions, forms one of the moft prominent features in the reign of Vladimir, and gives him a much jufter claim to the title of Great, which has been beftowed on him by hiftorians, than all his numerous victories. We have therefore dwelt on it with the greater minutenefs. Indeed the latter tranfactions of his reign afford but little intereft. His laft days were embittered by domeftic vexations; his wife and one of his favourite fons died long before him, and another of his fons, Yaroflaf, on whom he had beflowed the government of Novgorod, refufed to acknowledge him as his liege, and applicd to the Varagians for affiftance againft his father. The aged Vladimir, compelled to march againtt a rebellious fon, died with grief upon the road, after a long and glorious reign of 35 years.

The character of this monarch may be eafily collected from the account we have given of the tranfactions that marked his reign. He had certainly great, if not amiable qualities; and if he failed in communicating to his fubjects the zeal for civilization and improvement which he bimfelf poffefied, it was the fault rather of the times, than of the inftructor. His country remained barbarous, becaufe barbarifm was the characteriftic of the age, and the monarch himfelf role but little above the character of a barbarian, becaufe the times in which he lived did not admit of fuperior refinement. It has been well obferved by an ingenious writer on the hiftory of Ruffia, that it is fcarcely poffible for a man to rife far above his cotemporaries, and that had Vladimir lived in the 17 th century, the civilization and refinement of Ruffia might have been imputed to him, as it is now imputed to Peter the Great.

His im provement of the Ruffian monarcby.

Notwithftanding the circumfances we have noticed, the improvement which Ruffia owed to this prince was great and permanent. With the Chriftian religion he imported from Greece the arts which then flourifhed in that empire, and almoft entirely new-modelled the language of his country, by engrafting on it the more refined dialect of the Greeks, and adopting, in a great meafure, the letters of their alphabet. See PhiloLOGY.

The dominions of Ruflia, which at firf confifted of two principalities, that of Novgorod, bordering on the Baltic, and that of Kief, occupying no very large fpace on the eaftem bank of the Disiepr, were, by the victories of Vladimir, extended weftward along the flores of the Baltic, into Lithuania and Poland; fouthward along the fores of the Euxine, fo as to include the Crimea and great part of the Bulgarian territories; while to the eaft it extended to the Oka, the Don and the Volga. He ftill maintained the feat of government at Kief, of which he was ftyled grand prince, while the other difricts were either tributary to that principality, or held of it as their fuperior.

Before his death, Vladimir had divided his extenfive Rufîa. territories among his twelve fons, seferving to himfelf and his immediate heir, the grand principality of Kief. partition The confequences of this ill-judged ditribution were of his dodifunion, contention, and almoft perpetual warfare among minions athe brothers. The moft refpectable, and in the end mung his the moft powerful of thefe, was Yaroflaf, or as he is fonk commonly called Jarillaus, prince of Novgorod. This prince finding that Sviatopolk, who had raifed himfelf to the fovercignty of Kief after his father's death, attempted by affaffination, or force of arms, to take poffeffion of the neighbouring principalities, determined to refilt him in his incroachments. Collecting an army of Novgorodians, he in 1016, drove Sviatopolk from Kief, and forced him to feek an afylum, with his father-inlav, Boleflaus, duke of Poland. Boleflaus was eafily perfuaded to engage in the caufe of his fon-in-law, as the hoped to reap advantage from the quarrels among the defcendants of Vladimir, and not only regain that part of his dominions which had been conquered by that prince, hut enlarge his territory by encroachments on the Ruffian borders. He therefore accompanied Sviatopolk into Ruffia with an army, retook Kief, and obliged the Novgorodian prince to retire with precipitation. While he was endeavouring to collect frefh forces to renew the war with Bolcflaus and Sviatopolk, the latter by the treachery and perfidy with which he treated his Polifh allies, contributed to his own downfall. He caufed great numbers of the Poles to be fecretly maffacred, a tranfaction by which Boleflaus was fo incenfed, that he plundered Kief, made himfelf mafter of feveral places on the Ruffian frontiers, and then left his perfidious fon in law to fhift for himfelf. Sviatopolk now fought affiftance from the Petchenegans, and with an army of thefe atuxiliaries, offered battle to Yarolaf, not far from the place, where he had, four years before, caufed one of his brothers to be murdered. The conteft was long and bloody, but terminated in favour of Yaroflaf. Sviatopulk was put to flight, and died foon after.

By this victory Yraroflaf acquired poffeffion of the Reign of greater part of his father's dominions, and teftified his Yarofaf. gratitude for the affiftance given him by the Norgorodians, by the attention which he paid to the particular improvement of that fate. He drew up for it a code of laws, which are ftill known by the appellation of the municipal law of Novgorod. He alfo exerted himfelf for the welfare of other towns, and of the country at large.

Yaroflaf did not neglect the advancement of the Chriftian religion. He eftabliflied a metropolitan in Kief, and thus gave to the Ruffian clergy a head, who might watch over the morals of the inferior paftors, and provide for the general diffemination of the Chriftian doctrine. He collected feveral books in the Greek religion, and caufed many of them to be tranflated into the Ruffian language.

This monarch is fuppofed to have died in 1054 , and to have reigned 35 years. He followed the example of his father, in dividing his territories among his fons, though he endeavoured to prevent the diffenfions which he himfelf had witneffed from fuch a partition, by exhorting them on his deathbed, to the moft intimate concord, and endeavouring to convince them that they would be refpected by their fubjects, and feared by their

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Ruffia. enemies, only while they continued to act with unanimity.

We know little of the proced dings of Yaroflaf's fucDitenfions among the fuccelfors
of Yarollaf. ceflors, except that If flaf, his eldeft fon, and grand prince of Kief, had frequent difputes with his brothers, in which he was affifted by the Pules, and fupported by the iniluence of the Roman pontiff. During thefe difputes he was once expelled from his dominions, but again recovered them, and reigned till 1078 .

From the death of Ifiaflaf to the beginning of the $1^{\text {th }}$ century, the hitory of Ruffia compriles little elfe than a continued feries of inteftine commotions and petty warfares with the neighbouring flates. The fime fyttem of difmemberment was continued by the fucceeding princes, and was attended with the fame refult. There were during this period not fewer than 17 independent princiaalities, though thefe were at length reduced to feven, viz. thofe of Kief, Novgorod, Smolenk, Vladimir, Tver, Halitch, and Mookva (Mofeo). Of thefe, Kief and Novgorod long continued to be the moit powerful, thougi they could not always maintain their faperiority over the other principalities; and towards the latter end of the period which we have mentioned, the ditrit of Vladimir ereeted itfelf into a grand princioality, and became at lealt as powerful as Kief and Novgorod.

In the fupremacy of thefe three great principalities, may trace the divifion of European Ruflia into Great, Little, and White Rulia, a diltinetion which long maintained its ground, and in later times gave to the fovereign of this empire the title of monarch or emperor of all the Rulfias. Great Ruffia comprehended the principality of Novgorod, and estended norihward to the White fea, eaftward to the river Dvina, and the entrance of the Petchora into the Uralian mountains; while to the fouth it bordered on the diltrict of Vladimir, as far as the Volga and the mouth of the Medreditza, and to the welf on Lithuania and Prufia, including the tributary tribes on the Baltic, as far as Memel. Its capital was Novgorod. Litlle Ruffia extended along the river Ager to the north above the Donetz and the Oka, on the eaff to the Polovtzes and the Petchenegans, while to the fouth it fretched as far as the Taurican Cherfonefus, or the Crimea, and to the weft along the banks of the river Goryn. This was the priacipality of Kief, and in that city was held the feat of government. The principality of Vladimir received the name of White Ruffia. It extended northward along the Volga, to the fouthern boundary of Great Ruffia; to the eaft it bordered on the noffeffions of the Ugres, and the territory of the Mordvines, fretching down the Volga to the mouth of the Oka; to the fouth it extended along the Oka to the principality of Riazan, and the Bulgarian territory. The metropolis of this divifion was at firt Shuia, afterwards Roftof, Suidal, and Vladimir, till at length the feat of government was transferred to Mrifco.

The principality of Novgorod appears, during this interval, to have been the moff refpectable for its commer- cial intercourfe with the neighbouring nations, and for the independent fpirit of its internal government. This, though nominally monarchical, feems to have poffeffed much of a republican character The princes were evidently dependent on the people, and fome ludicrous inתances of this dependence are related by the old hiffori-
ans. One of the grand princes had fo much difpleafed his people, that they refufed to pay him their ufual obedi-

Reniz. ence. As the prince leems to have been aware of the little influence which be poffeffed in the flate, he employed the metropolitan of the pripcipality to negotiate a reconciliation. This prelate accordingly wrote to the Novgorodians in the following terms. "The grand prince has acted wrong towards you, but he is forty for it, defires you to forgive him, and will behave better "Tooke's for the future. I will be furety for him, and befeech Rujla, you to receive him with honour and dignity. *" vol. 2.
During the inteffire broils that attended the difmem- ${ }^{P .236 .}$ berment of the Ruffian monarchy, the ambition of its Inruais of neighbours, and partly the folly of the contending he Poies, princes, who folicited their affiltance aymainft their rivals, $\begin{gathered}\text { ic. }\end{gathered}$ contributed to diminifla the ftrength and refources of the empire. In particular the Polev and the Hungarians availed themfelves of thefe circumfances. Invited into Rulfia by the rival princes, and allured by the hope of plunder, they readily lent their aid to any of the parties. By ravaging the towns and village, carrying off the captives into flavery, and makirg a prey of whatever appeated moit ufeful, they quikly recompenfed themfelves for their affitance. The Poles feem to have been moft fucceefful in their depredations, and to have fully revenged themictves for their former humiliation.

It is not furprifing that a A te of anarchy and confu-Invafion of fion, fuch as we have defcribed, fhould hold out a temp. 'he Tartars, tation to any powerful nation to attempt at acquiring the dominion of a people who fhowed that they were incapable of governing themfelves. Not far from the confines of Vladimir and Kief, viz. in the neighbourhood of the fea of Aral, the wandering hordes of Morgoles, or Mongol Tartars, had taken up their refidence. Thefe people appear to have defcended from the ancient Scuthians, and to have long diwelt on the confines of the Chinefe empire. Hence they gradually marched weftward, and about I 223 arrived on the flores of the fea of Aral, under the conduct of Tufchi, fon of the famous 'T(chinghis $\mathrm{K}_{1}$ 1an, chief of the Mogul empire, many of whofe warlike exploits have been recounted under the article Mogul. From the Aral, Tufchi conducted his horde along the fhores of the Cafpian, and gradually approached the Duiepr. In his courfe he attacked and overcame the TYcherkefes, or Circaffians, who on his approach had joined with the Polowtzes, to refift the terrible enemy. The defeated Polovtzes gave notice to their ncighbours the Puffians, of the approaching form, and invited them to form a conmon caufe againt the enemy. In the mean time the Tartars had fent ambaffiadors to the Ruflians, hoping to prevent their alliance with the Polovtzes, and thus the more eafily fubdue the difunited nations. For this time, however, the Ruffians were true to their own interef, and proved firm to their alliance. In concert with the Polovizes, they affembled an army, and prepared to refitt the incurfions of the Tartars. Both partics met near the fmall river Kalka, which flows into the fea of Af.f, and a furious engagement took place. The Ruffans fought with great intrepidity, but the Polovtzes thrown into confternation at the furions onfet of the Tartars, fuddenly betook themfelves to fight. As they formed the van-guard, their flight put the Ruffian army, which was drawn up behind them, into fuch complete

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R.ifiz. diforder, that a total route enfued. The prince of Kief, who had kept himfelf aloof during the engagement, attempted to refift the victorious Tartars, but his army was attacked and defeated with great 』laughter.

Had the princes who then fhared among them the Ruflian territories firmly united againft the common enemy, there is little doubt that they might have ftemmed the torrent, which foon, from their flate of rivalthip and difunion, burft in and overwbelmed them. About 13 years after the defeat on the Kalka, another norde of Tartars, headed by Baaty Khan, the grandfon of Tfchinghis-khan, penetrated into Ruflia, after having attacked and defeated their neighbours the Bulgarians. The Tartars foon fpread far and wide the terror of their name. Wherever they came, the whole face of nature was laid wafte; towns and villages were deftroyed by fire; all the men capable of bearing arms were put to the fword, and the children, women, and old men, carried into captivity. If the inhabitants of the towns to which they approached offered a compromife, the faithlefs barbarians affected to receive their fubmiffion; but immediately broke the agreement, and treated thofe who furrendered to their mercy with as much rigour as thofe who had endeavoured to defend themfelves, and had been overcome. If the inhabitants of the open towns and villages came out to meet them, and to receive them as conquerors and friends; death, torture, or the moft ignominous bondage, was the reward of their fpontaneoas fubmiffion.

The firit fate which they attacked was Riazan, the prince of which applied for affiftance to Yury, commonIv called by hiftorians, George Sevoloditch, grand prince of Vladimir, who was then chief of the Ruffian princes. He fent them a few auxiliaries, but they either came too late, or their number was too fmall. The principality of Riazan fell, and its fall was fucceeded by that of Perciaflavl, Roftof, Sufdal, and feveral others. Like a furious torrent rufhing down the mountain's fide, and irrefiltibly carrying with it all that impedes its progrefs, thefe barbarous hordes rolied their rapid courfe, carrying in their train fire and fword, ravages and defolation, torments and death, and fweeping all before them in one common devaltation. They now approached the principality of Vladimir, and no army appeared to refift them on the frontiers. They advanced unimpeded to the capital, which, left to its fate by the grand prince, bad nothing to expect, but the fame cruel treatment which the neighbouring cities had received. Yury, with unpardonable negligence, was celebrating a mar-: riage fealt, when he ought to have been employed in collecting the means of defence againt the enemy, of whofe approach to his borders he had received timely intimation. The city of Vladimir, which contained the princefs and two of her fons, was left to the protection of a chieftain, totally unqualified for its defence, and the inhabitants feemed to flare the pufillanimity of their governor. Inflead of annoying the enemy by occafionai excurfions, and preparing the means of defending the walls agrintt a fudden attack, they gave themfelves up to terror and defpair; and as they conceived death to be inevitable, they prepared for it, by taking the habits of monks and nuns, in order to infure to themfelves a blifsful departure. A prey to fear and defpondency, the city foon fell into the hands of the Tartars. They one moming falced the walls, and meeting with little
oppofition, quickly made themfelves mafters of the place; when they calt afide every feeling of humanity, and like beafts of prey, glutted their appetite for blood an ${ }^{2}$ mong the wretched inbabitants. The grand princefs, and other ladies of diftinction, dreading the brutality of the relentlefs conquerors, had taken refuge in the choir of a church, an afylum which all the affurances of the,
 vail on them to abandon. It was therefore fet on fire. by the barbarians, who feafted their ears with the flurieks and groans of the women, as the flames furrounded them.

Yury, incenfed almoft to defperation, at the fate of his capital, and the horrible death of his wife and children, was determined to take fignal vengeance on the aflailants. He aliembled all the forces which he could. draw together, and though his army was greatly inferior in numbers to the Tartars, he marched againft the enemy, and attacked them with the mot determined valour. 'The ftruggle was fhort, but bloody; the Tartars were victorious, and the body of Yury was found. among the flain.

This appears to have been the only vigorous ftand made by the Ruffian princes. The Tartars pulked forward with rapidity, and fucceffively overpowered the principalities of Novgorod and Kief. In the latter city they found immenfe booty; but this circumflance did not prevent them from repeating here the fame bloody fcenes which they had acted in the other capitals. The governor was preferved from the cruelties that had been inflicted on the inhabitants, by the courage he had difplayed in defence of the city; and his noble demeanour, when he fell into the hands of the conqueror, acquired. the efteem and affection of that chief, and enabled him to obtain a temporary repofe to his country,

The Tartars had now eftablifhed themfelves in the Succeffion Ruffian territories, and their khan or chief, though of Ruffian he did not himelf affume the nominal forereignty, irinces unreigned as paramount lord, and placed on the throne der the any of the native princes whom he found moft obfequious Tartars. to his will, or who had ingratiated themfelves by the magnificence of their prefents. The throne was fucceflively occupied by Yaroflaf II. Alexander Yaroflavitch, Yaroflaf Yaroflavitch, Vafilii Yaroflavitch, Dimitri Alexandrovitch, Andrei, Danill, both brothers of Dimitri, Mikaila Yaroflavitch, Yury Danilovitch, Alexander Mikailovitch, Ivan Danilovitch, Simeon Ivanovitch, and Ivan Ivanovitch.

Among the princes whom we have enumerated, we St Alexanmuft particularly notice Alesander the fon of YaroflafderNeffsky, II. This prince was inftalled grand prince of Ruftia by the Tartar khan in 1252 , and continued to reign till 1264. He is remarkable chiefly for a decifive victory gained by him over the Danes on the banks of the Neva;-a victory which procured him the honourable furname of Neffsky (the congucror). 'This victory is faid to have taken place in 1239, while Alexander was governor of Novgorod, under his father Yaroflaf, who then reigned at Vladimir. After his acceffion to the throne on the death of his father, he engaged in a fuccefsful war with Sweden. This prince is held in great veneration by the Ruffians, and feveral miracles are attributed to him. In particular it is faid, that when the prayer of abfolution was offered to his corple previous to interment (a preflice long cufomary i: Rafia), the
hand of the dead body opened to receive it. His reputation for fanctity occafioned him to be ranked annong the tutelary faints of the Greek churcb, where he ftill holds a dintinguilhed place, by the title of St Alexander Neffsky.
Subjuga. During thefe feveral reigns, which all hitorians have tion of Ruf. paffed over for want of records concerning them, the fia by the miferies of a foreign yoke were aggravated by all the Polcs. calamities of intelline dilcord and war ; whilft the knights of Livonia, or brothers of the fhort-fivord, as they are fometimes called, a kind of military order of religious, on one fide, and the Poles on the other, catching at the opportunity, attacked Ruffia, and took feveral of its towns, and even tome confiderable countries. The Tartars and Ruffians, whofe interefts were in this cafe the fame, often united to oppofe their common enemy; but were generally worfted. The Livonians took Plefkow, and the Poles made themelves mafters of Black Ruflia, the Ukraine, Podolia, and the city of Kief. Cafimir the Great, one of their kings, carried his conquefts fill farther. He afferted his pretenfions to a part of Ruflia, in right of his relation to Boleflaus duke of Kalitz, who died without iffue, and forcibly poffiefed himfelf of the duchies of Perzemylia, Kalitz, and Luckow, and of the diftricts of Sanock, Lubakzow, and Trebowla ; all which countries he made a province of Poland.
The newly-conquered Ruflams were ill difpored to endure the government of the Poles, whofe laws and cultoms were more contrary to their own than thofe of the Tartars had been. They joined the latter to rid themfelves of the yoke, and affembled aas army numerous enough to overwhelm all Poland, but dellitute of valour and difcipline. Cafimir, undaunted by this deluge of barbarians, prefented himfelf at the head of a few troops on the borders of the Viltula, and obliged his enemies to retire.
An. r362. About the year 1362 Dimitri Ivanovitch received ${ }^{6} 4$ the fovereignty from the Tartar chief, and eftablified Reign and the feat of his government at Mofo. This prince pofsuccefics of Dimitri 1*novitch.
fome meafure a holy war, undertaken in defence or the $R$, mas? national religion. This combination of favourable cir- $\quad$ cumftances operated fo ftrongly in favour of Dimitri, and the princes that had confederated with him, that they foon collected an army of 200,000 men. With this force the grand prince left Mofco, and marched towards the Dois, on the fouthern bank of which the Tartars were encamped. Arrived at this river, he left it to the choice of his troops, either to crofs the river, and encountcr the enemy on the other fide, or to await the attack where they were. The general voice declared for paffing over to the affault. The grand prince accordingly tranfported his battalions acrofs the river, that he might cut off all hope of efcaping by retreat. The fight now commenced, and though the numbers of the foe far exceeded their own, the Ruflians defended themfelves valiantly againit the furious onfet of the Tartars; but as thefe barbarians were continually relieved by frelh reinforcements, they appeared to be gaining ground. Indeed, nothing but the impoffibility of rerreating acrofs the river, and the firm perfualion that death would immediately tranfport them to the manfions of eternal blifs, reftrained the Ruflians from a general flight. At the moment when the day feemed entirely loft, a detachment of the grand prince's army which he had ftationed in referve, and had remained out of the view of the enemy, came up with unabated force, fell on the rear of the Tartars, threw them into fuch terror and confufion, that they lied with Mammai at their head, and left the Ruffans matters of the ficld. This conteft muft have been extreinely bloody, 25 we are told that eight days were employed by thic remains of the Ruflian army, in barying the bodies of their flaughtered companions, while thofe of the Tartars were left uninterred upon the greund.

This glorious victory, which took place in I $_{3} 80$, was attended uith numerous advantages to the Ruflian caufe. In particular, it taught the native princes that the Tartars were not unconquerable; that nothing was wanting to relieve them from the galling yoke under which they had long groaned, but mutual union, courage, and prudence. The Tartars appear to have been fo much humbled by this defeat, that for a time they left the Rulians to enjoy in peace their recovered liberty. This forbearance, however, was not of long duration. Before the death of Dimitri they returned with increafed numbers, li.id fiege to Mofco, which, after an obstinate defence, was at length induced to furrender, and Ruffia once more fubmitted to her old mafiers.

Dimitri died in $13{ }_{3} 89$, and was fucceeded by his fon An. $r_{3} 39$. Vaflii Dimitrievitch. In the reign of this prince a new Reion of incurfion of the Tartars touk place, under the great Reifing Timur or Tamerlane, who after having fubducd all the neiglibouring Tartar hordes, extended his conque?ts to the Rurfian territories, carried Mofco by affault, and carried off imuretife plunder.

The grand principality of Vladimir, or as it may now Companabe called, of Mofco, had, at the end of the 1fth cen- tive flate tury, attained its greateft haight, while that of Kief had fian principroportionally declined. This Jatter principality was, patitesar at the time of which we are now writing, under the do- the end of miniun of tive Poles, hasiif geen fuized on in 1320 by the 1 th Gedemin, duke of Lithuaniz.

The letter end of the 1 th century forms a fplendid epoch in the Ruftan hifo $y$. At this time, viz, irom

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Rufis.
67 Accefion of $I \operatorname{van} \mathrm{~V}$ fhavitch.

1462 to 1505 , reigned Ivan Vafilivich, or, as he is commonly called, John Baflovitz. This able prince, by his invincible fpirit and refined policy, tecame both the conqueror and deliverer of his country, and laid the firft foundation of its future grandeur. Obferving with indignation the narrow limits of his porser at his acceffion to the throne, after the death of his father Vafiliis the Blind, he began immediately to refolve within himfelf the means of enlarging his dominions. Marriage, though he had in reality no regard or inclination for women, feemed to him one of the beft expedients he could begin with; and accordingly he demanded and obtained Maria, fifter of Michael duke of Tiver, whom he foon af. ter depofed, under pretence of revenging the injurics done to his father, and added this duchy to his own territories of Mofco. Maria, by whom he had a fon named Ivan, who died before him, did not live long; and upon her death he married Sophia, daughter of Thomas Paleologus, who had been driven from Conftantinople, and forced to leck ficlter at Rome, where the Pope portioned this princefs, in hopes of thus procuring great advantage to the Romifh religi n ; hut his expectations were fruftrated, Sophia being obliged to conform to the Greek church after her arrival in Ruffia.

What could induce Ivan to feek a confort at fuch a diftance is nowhere accounted for, unlefs it be, that he hoped by this means to eftablifh a pretenfion to the empire of the eaft, to which her father was the next heir; but however that may be, the Ruffians certainly owed to this alliance their deliverance from the Tartar yoke. Shocked at the fervile homage exacted by thefe proud victors, her hufband going to meet their ambaffadors at fome diftance from the city, and ftanding to hear what they had to fay, whilft they were at dinner; Sophia told him that Me was furprifed to find that the had married a fervant to the Tarlars. Nettled at this reproach, Ivan feigned himfelf ill when the next deputation from the Tartars arrived, and by means of this flratagem, avoided a repetition of the humiliating ceremonial. Another circumfance equally difpleafing to this princefs was, that the Tartars poffeffed by agreement within the walls of the palace at Mofco, houfes in which their minifters refided, a fipulation which they had made, at once to thew their power, and watch the actions of the grand prince. To rid her husband and herfelf of thefe unpleafant neighbours, Sophia fent a formal embafly to the khan, to inform him, that as fice had been favoured with a vifion from above, commanding her to build a temple in the place where then ftood the houfes of the Tartar miniflers, her mind could not be at eafe till the had fulfilled the divine command; The therefore defired his leave to pull them down, and give his neonle others The khan confented; the houfes within the K emlin ( D ) were demoliffed, and no new ones being provided, the Tartar refidents were obliged to leave Mofco, an affront which their prince was not able to revenge, as he тיas then engaged in a war with the Poles.

Ivan taking advantage of this circumflancr, and having gradually increafed his forces, now openlv difclaimed all fubjection to the Tartars, attacked their territo-
ries, and made himfelf mafter of Kazan. Here he was Ruffa. folemnly crowned with a diadem which is faid to be the $\underbrace{\sim}$ fame that is ftill ufed in the coronation of the Ruffian fovereigns. This took place about the year 1470 , and led to a complete emaricipation of Ruffia from the Tartar dominion. Ivan afterwards carried his arms againft the neighbouring fates. The province of Permia, with Afiatic Bulgaria, and great part of Lapland, foon fubmitted to him, and the great Novgorod, a city then fo famous that the Ruffians were accuftomed to intimate their idea of its importance by the proverbial expref fion, Who can refift God and the great Novgorod? was reduced by his generals after a feven years fiege, and yielded immenfe treafure. This place was fo wealthy, that Alexander Witold, prince of Lithuania, to whom the Norgorodians were then tributary, derived from it a yearly contribution of 100,000 rubles. The booty carried off by Ivan to Molco, is faid to have confitted of 300 cart loads of gold, filver, and precious ftones, with a much greater quantity of furs, cloths, and other merchandife. After he quitted the city, which had been awed by his prefence, the difcontents excited at his violent meafures broke out into ads of mutiny, on which he, in $14^{9} 5$, carried off 50 of the principal families, and diftributed them through feveral of the Ruffian towns. He afterwards carried off fome thoufands of the moft confiderable inhabitants, and replaced them by more loyal fubjects from other places. By thefe preceedings the flourifhing commezce of this city received a confiderable fhock, and it fuffered fill more by the imprifenment of all the German merchants, and the confifcation of their effects. Indeed from this period Novgorod never recovered its former fplendor.

After his reduction of Novgorod, Ivan invaded the Hivinva ie ritories of Livonia and Efthonia, in confequence, as Hi Livalia we are told, of an affront offered to him by the inha- and Efthobitants of Reval. Here, horrcver, he met with a ftout ${ }^{\text {Lia. }}$ refiflance, and does not feem to have made much progrefs. Towards the conclufion of his reign, the Kazanian Tartars, who, though humbled, had continued to inhabit that diftrict, made a hard ftruggle to thake off the Rufian yoke that had been impofed on them ; but Ivan had eftablifhed his authority too firmly for them to accomplifh their purpofe during his lise. He died in $\mathbf{1} 505$, and was fucceeded by his fon Vafilii Ivanovitch, commonly called Bafilius IiI.

The Tartars of Kazan were fill fuffered to maintain a An. 1505. Sher of independency, by electing their own khans; but $7^{5 x}$ a Ruffian noble, under the denomination of voivode, Reign of was affociated with the khan in the government, and took care that the adminiftration fhould be conducted in fuch a manner as to fecure the interetts of bis mafter. About 14 years after the death of Ivan, however, the Tartars refolved to overturn fo humiliating an adminifration. They murdered the Puffian voivode, expelIed their nominal khan, and united themfelves with their brethren of the Crimea. With their affiftance thev affembled a mighty force. entered the Ruffian d minions, and carried their arms even to the gates of Mofco. The grand prince Vafilii found himfelf at that time unable
(D) This was the name given to the palace of the grand duke at Mofco, an elifice which is fuppofed to have been built by

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 unabie to refift the barbarians, and therefore purchafed an exemption from general pillage by great prefents, and a promile of renewed allegiance. The 「artars retired, but carried ofr immente booty, and nearly 300,000 prifoners, the greater part of whom they fent to Theodofia in the Crimea, and fol? them to the Turks. This humiliation of Vailii did not, bowever, long continue, and he was foon enabied to make head againft the Tartars, and to recover poffeffion of the city Kazan, and of Pfcove, a city which had been built by the priacefs Oiga, and was the great rival of Novgorod in wealth and commercial importance. Under this prince all the principalities of Ruffia were once more united, and they have remained ever firice under the dominion of one fovereign.
An. 1533 .
It was under the fon and fucceifor of Vafilii, Ivan IV. or, as he is fyled by the Ruffian hiftorians, Ivan Vafiliiliivitch II. vitch II. that Rultia completely emancipated herielf from her fuhjection to the Tartars, and acquired a vaft acceffion of territory, which exiended her empire into the north-ealt of Afia, and rendered her, for the firit time, fuperior in extent to any ftate that had appeared fince the Roman empire. Vafili died in 1533 , having reigned 28 years, and lived 55 . His fon Ivan was only three years old when he fucceeded to the throne, and the queen-mother was appointed regent during his minority. During her adminiftration the fate became a prey to anarcby and confunion. She feems to have had no talents for government, and devoted herfelf entirely to the purfuit of pleafure, fo that the ambitious nobles, and in particular the encles of the young prince, had the molt favourable opportunity for aggrandizing themfelves at the expence of the fovereign. The queen mother died in 1538 ; and though the names and charactecs of thofe who alfumed the regency after her death are not knoxn, it appears that they muft have conducted the adminiftration with confiderable prudence and circumipeation, as, when Ivan attained his 17 th year, he was enabled to affume the reins of government without oppofition; and from the important tranfactions in which he immediately engaged, mutt have been poffefied of confiderable refources.
In taking into his own bands the government of the
of winter into the difrict of Kazan, and laid fiege to the capital, regardlefs of the murnurs of his troops, who loudly and openly exprefied their diflike to thits expedition, declaring that no good commander would think of conducting his forces to fieges and battles during the inclemencies of winter, or attempt at fuch a fealon to attack the encmy in their quariers. Exafperated at thele murmurs, he determined to punih feverely the principal officers who had contributed to foment the difcontents of the foldicrs, and by this welltimed feverity he effectually repreffed all oppofition to his will.
Before entering ferioufly on the fiege of Kazan, he His fiege built feveral forts on the frontiers of the Tartar terri- ot the 「artories, by which he hoped to avve thefe barbarians, and tar capitalo prevent them from difturbing the peace of his dominions. He then invelled Kazan, and in the year 1552 , made himfelf maiter of it by the new, and, to the lartars, unheard-of method of fpringing a mine below the walls. We are told by fome liikorians, that the city had made an obftinate defence, and that, during the fiege, which latted above feven years, another alarming mutiny broke out in the befieging army; that Ivan was in great danger of his life, and was obliged for a time to abandon the enterprife, and retire to Mofco, where he made an cxample of the chief mutizeers, and again returned to the fiege of Kizan. How far this flatement is to be relied on, it is difficult now to determine; but perhars this mutiny is confounded with that which we have already noticed, as having taken place at the commencement of the enterprife.

As Kazan was taken by florm, the inhabitants were treated with much rigour; and the Daughter was fo dreadful, that even the flinty heart of Ivan is faid to have relented at the heaps of dead bodies which ftruck his fight on entering the city. The inhabitants that efcaped flaughter, and the remains of the Tartars, were offered mercy on condition that they fhould embrace the Chritian faith. By this important conqueft the dominion of the Tartars, which had opprefied the Ruffians for more than three centuries, was completely and permanently overthrown.

A bout two years after he had abolifhed the power of His exienthe Tartars, he extenied his conquefls eaftward to the fhores of the Cafpian, and took poffeffion of the territory that lay on the right bank of the Volga, round the city of Aitracan, which was allo inhabited by the Tartar hordes.

Ivan, as well as his grandfather, bad found it necef- His ${ }^{76}$ evere fary to chaftife the inhabitants of Novogorod; but in ircatment the year 1590 , this city being fuifpected of forming a ${ }^{\circ}$ of Novgoplot for delivering itfelf and the furrounding territory into the hands of the king of Poland, felc ftill more feverely the effects of his vengeance. All who had been in any degree implicated in the confpiracy, to the number of 25,000 , fuffered by the hands of the executioner. The city of Pfoove was threatened with a fimilar profcription; but Ivan, on their voluntary fubmiffion, contented himfelf with the execution of a few monks, and the confication of the property of the moff opulent inhabitants. It is not furprifing that acts like thefe fhould have given to this prince the names of tarrible and $r y$ rant, by which hiftorians have occafionally ditinguifhed him ; though it is not a little extraordinary, that he flould

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Ruffia. fhould have retained fo much intereft in the affections of his fubjects, that when, to try their attachment, he, in 1575 , abdicated the govermment, and retainced only the title of Prince of Mofco, the majority of the nation bondly cxpreffed their wifh for lim to refume the adminiftration of affairs. We can account for this, only by confidering the meafures which he had adopted for the improvement and civilization of his people. Thefe were of fuch a nature as in a great meafure to obliterate the remembrance of his cruelty and oppreffion. He promulgated a new code of laws, compofed partly of fuch ancient fatutes as flill were in force, and were capable of improvement, and partly of new regulations, which he either contrived limfelf, or adopted from the neighbouring fates. He found it neceffary, however, to render many of thefe laws extremely fevere, though their execution was moft frequently exempliffed in the perfors of his nobles, whofe perverfenefs and obftinacy feemed unconquerable by more lenient meafures.

Ivan cultivated an intercourfe with feveral of the European flates, efpecially with Germany, for which country be feems to have had a very particular efteem. Early in his reign, viz. in 1547 , he fent a fplendid embafly to the emperor Charles V. requefting him to permit a number of German artifls, mechanics, and literary men, to eftablifh themfelves in Rufia. Charles readily complied with his requeft, and feveral hundred volunteers were collected and affembled at Lubeck, whence they were to proceed through Livonia to Mofco. The Lubeckers, however, jealous that the irpprovement of the Ruffians in arts and manufactures might render them independent of their neighbours, and diminifl the comsuercial intercourfe that had long fubffited between their city and the principal towns of Ruflia, arrefted the Germans in their route, and in concert with the merchants of Reval and Riga, fent a petition to Charles, requefting him to recal the permiffion he had granted. In confequence of thefe meafures, many of the German artifts returned home, but feveral of them efcaped the vigilance of the Lubeckers, and reached Mofco by a circuitous route. Ivan endeavoured to revenge himfelf on the Livonians by invading their country. This was ftrenuounly defended by the Teutonic knights; and thefe chamrions, finding at laft that they were unable to maintain their ground, rather than fubmit to the Ruffian monarch, put their country under the protection of Poland.

The Swedes allo came in for a fhare of the Livonian territorics ; and this circumftance gave rife to a war between them and the Ruflians. Ivan invaded Finland; but that country was bravely defended by William of Furfenberg, grand mafter of the Livonian knights, with the aflifince of the troops of Guflavus Vaza; and it does not appear that Ivan gained much in this expedition, though we are told that the Livonian grand mafter ended his life in a Ruffian prifon.

An. 1553 Kuffia.

In 1553, an event happened which firf led to an intercourfe between Fuffia and England. Some Englifsmen who were at that time on a voyage of difcovery, landed on the thores of the White fea, where foon after was built the port of Archangel. They were hofpitably received by the natives; and intimation of the circurnftance being conveyed to Ivan, he fent for the ftrangers, and was fo much pleafed with their abilitics and
deportment, that he rafolved to give every encouragement to the Englifh commerce, and thus open a new channel of interccurfe with a lighly polifhed nation, by which his fubjects might obtain frelli incitements to activity and induftry. We are told, that his affection for the Englifi procecded fo far, as to induce him to form the defign of marrying an Englifh lady. He expreffed the highell efteem for Queen Elizabeth, and requefted by his ambaflador, that if the ingratitude of his fubjecls flould ever compel him to quit Ruflia, (a circumftance by no means improbable), the would grant him an afylum in her dominions. It was in confequence of this accidental communication between the Ruffians and the Englifh, that Eigland firf engaged in a trade to Ruffia, and promoted this new commerce by the effabliffment of a company of Reffia merchants in London.

About twenty years after Aftracan had been annex-Ivan aned to the Ruflian empire, a new acquifition of territory nexes Siaccrued to it from the conquelts of a private adven- ieria to accrued to it from the conquelts of a private adven- the Ruman
turer, in the unknown regions of Siberia. The fleps empire. that led to the acquifition of this immenfe tract of the Afiatic continent, are thus related by Mr Tooke.
"The grand prince, Ivan III. had already fent out a body of men, who penetrated acrofs the Ingrian mountains, and traverfed all the diftricts as far as the river Oby. But, amidft the urgent affairs of government, the difcoveries they made infenfibly fell into oblivion. Some years afterwards a merchant, named Stroganof, who was proprietor of fome falt-works on the confines of Siberia, was curious to gain a farther knowledge of that country, which was likewife inhabited by Tartars, whofe khan refided in the capital Sibir. Perceiving, among the perfons who came to him on affairs of trade, men who belonged to no nation with which he was acquainted, he put feveral inquiries to them concerning the place whence they came, and once fent a few of his people with them back to their country. Thefe people brought with them, at their return from the regions they had now explored, and which proved to be this very Siberia, a great quantity of invaluable furs, and thus opened to their mafter a new road to wealth. However, not fo covetous as to wifh to keep this treafure to himfelf, he fent information of it to the court, and the attention of government was once more directed to this country. But the conqueft of it, and its conjunction with Ruffia, was referved for an adventurer named Timofeyef Yermak. This Yermak, at the head of a gang of Don Kozaks, had made it his practice to rob and plunder the caravans and paffengers that occafionally frequented the roads, as well as the inhabitants, whereever he came, and was fo fortunate as to efcape the fearch of the Ruffian troops that had been fent out againit him and his band, which confifted of not fewer than 6000 men. On their flight, he and his people accidentally came to the dwelling of Stroganof, where, hearing much talk about Siberia, and leing perfons who had nothing to lofe, and therefore might put all to the hazard, they foon formed a plan to penctrate farther into that country, and there feek at once their fafety and their fortune. After numerous ftruggles and conflicts with the natives, which greatly reduced their numbers, they at length conquered the capital, and fhortly afier the whole country. Sermak now prefented the

Rufin. fruit of his toilfome and perilous victorics to his tzar (E) Ivan, in hopes of obtaining thereby a pardon for his former depredations, which was granted him accordingly. By the building of feveral towns, and conitructing a number of forts, the poffeffion of this country was foon permanently fccured. The lefs and the greater Rabardey were alfo added to Ruflia in the reign of Ivan. This izar, however, not only enlarged the circumference of his empire, partly by force of arms and partly by accident, but he refolved to reform his people, to render them more polifhed, more filfut, and induftrious; but this he found to be the molt arduous enterprife he could poffibly have undertaken. The infuperable impediments which threw themfelves in the way of the execution of this grand work, were the principal incitements to thofe frequent acts of crueliy and defpotifm which have covered bis memory with fo deep a
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His vietories over the Tar. tris. ftain."

Toxards the clofe of Ivan's reign, a prodigious army of Turks and Tartars entered Ruffin, with a defign to fubdue the twhole country. But Zerebrinoff, the tzar's general, having attacked them in a defile, put them to flight with confiderable flaughter. They then retired towards the mouth of the Volga, where they expected a confiderable reinforcement; but being clofely purfued by the Ruffians and Tartars in alliance with them, they were again defeated and forced to fly towards Azof on the Black fea. But when they came there, they found the city almof entirely ruined by the blowing up of a porder magazine. The Rulfizns then attacked their thips there; took fome, and funk the reft; by which means alrnoft the whole army perifhed with hunger or
ers. The caftle, however, which was ftrongly fortifed, could not be taken; and the Tartars, hearing that a

Ruffiz. formidable army was coming againft them under the command of Nagnus duke of Holftein, whom Ivan had made king of Livonia, thought proper to retire. Ihe war, neverthelels, contir ued with the Poles and Swedes; and the tzar being deleated by the latter atier fomie trifling fuccefs, was reduced to the weccitity of fuing for peace ; but the negociations being broken off, the war was renewed with the greateft vigour. I he Livonians, Poles, and Swedes, having united in a leascue againft the Ruffians, gained great advantages over them; and in 1579 , Stephen Battori, who was then raifed to the throne of Poland, levied an army exprefly with a defign of invading Ruffia, and of regaining all that Poland had formerly claimed, which indeed was little lefs than the whole empire. As the Poles underltood the art of war much better than the Rufians, Ivan found his undiciplined multitudes unable to cope with the regular forces of his enemies; and their conquefts were fo rapid, that he was foon obliged to fue for peace, which, lowever, was not granted; and it is poffible that the number of enemies which now attacked Ruflia might have overcome the empire entirely, had not the allies grown jealous of each other. The con'equence of this was, that in 1582 a peace was concluded with the Poles, in which the Swedes were not comprehended. However, the Swedes finding themfelves unable to effect any thirg of moment after the defertion of their allies, were oblized to conclude a truce; fhortly after which the tzar, having been worfted in an engagement with the Tartars, died in the year 1584.

The eldeft fon of the late tzar, Feodor (or as he is An. $155^{\circ} 4$. commonly called, Theodore) Ivanovich, was by no $\mathrm{Reign}_{3}$ means fitted for the government of an empire fo exten- Fcigo or five, and a people fo rude and turbulent as had devolved Itatovitch. to him by the death of his fatber. Ivan had feen the incapacity of his fon, and had endeavoured to obviate its effects, by appointing three of his principal nobles as adminiftrators of the empire; while to a fourth he committed the ckarge of his younger fon Dimitri. This expedient, however, failed of fuccefs; and partly from the mutual jealoufy of the adminiltrators, partly from the envy which their exaltation had excited in the other nobles, the affairs of the empire foon fell into confufion. The weak Feodor had married a fifter of Boris Gudonof, a man of confiderable ambition, immenfe riches, and tolerable abilities. This man had contrived to make himfelf agreeable to Feodor, by becoming fubfervient to his capricious defires and childift amufements; and the wealth he had acquired through his intereft with the lovereign, enabled him to carry on his ambitious defigns. He had long directed his wifhes towards the imperial dignity, and he began to prepare the way for its attainment ly removing Dimitri the brother of Feodor. This

From this time the empire of Ruffia became fo formidable, that none of the neighbouring nations could hope to make a total conqueft of it. The Poles and Swedes indeed continued to be very formidable enemies; and, by the infigation of the former, the Crim Tartars, in 1571, again invaded the country with an army of 70,000 men. The Ruffians, who might have prevented their paffing the Volga, retired before them till they came within 18 miles of the city of Mofco, where they were totally defeated. The tzar no fooner heard this news, than he retired with his moft valuable effects to a well-fortified cloptter; uoon which the Tartars entered the city, plundered it, and fet fire to feveral churctes. A violent form which happened at the fame time foon fpread the flames all over the city; which was entirely reduced to afles in fix hours, though its circumference was unwards of 40 miles. The fire likerwife commanicated itfelf to a powder magazine at fome diftance from the city; by which accident upwards of 55 rods of the city wall, with all the buildings upon it, were deffroved; and, arcording to the beft hiforians, upwards of 120,020 citiz-ns were burnt or busied in the ruins, hefides women, children, and forei ${ }_{a} n$. Vol. XVIII. Part I.
young prince fuddenly difappeared; and there is every 3 A realon

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Ruffia: reafon to believe tlat he was affifinated by the order of Buris. Feodor did not long furvive his brother, but died in 1598 , not without iupicion of his haviars been poifoned by his brother-in-law. We are told that the izaritza, lene, was fo much convincel of this that fl:e never after held any communication with her biother, but relired to a convent, and atumed the name of

## 84 <br> Alexandra.

Ac. blion
of Br r , and terminat on of the dynaft ot Ruric.

With Feodor ended the lait branch of the family of Ruric, a dynatly which had enjoyed the fupreme puwer in Ruflia ever fince the e.t ablimment of the principalicy by the Varagian chici, viz. during a period of above 700 years. On the death of Feodor, as there was no hereditary fucceffor to the vacant throne, the nobles affembled to elect a new tzar ; and the artiul Borie haring, through the intereft of the patriarch, a man elevated by bis means, and devoted to his views, procured a majority in his favour, he was declared the object of their choice. Boris pretended unwillingnefs to accept the crown, declariag that he had refolved to live and die in a monaltery; but when the patriarch, at the head of the principal nobles, and attended by a great concourfe of people, bearing before them the crofs, and the effrgies of feveral faints, repuired to the convent, Where the artful ufurper had taken up his refidence, he was at length prevaild on to accompany them to the palace of the tzars, and fuffer himlelf to be crowiel.

Boris affords another example, in addition to the numerous infances recorded in hittory, of a foveseign who Eecame beneñoial to his fubjects, though he had procured the fovereignty by unjuttifiable means, If we give implicit credit to the hiltorians of thofe times, Boris was a murderer and a ufurper, though be had the voice of the people in his favour; tut by whatever means he attained the imperial power, he feems to lave employed it in advancing the intereits of the nation, and in improving the circumftances of his people. He was extremely active in his endeavours to extend the conmerce, and improve the arts and manufactores of the Ruffan empire; and for this purpofe he insited many foreigners into his $d$ mimions. While he exerted bimfelf in fecuring the tranquillity of the country, and defending its frontiers by forts and ramparts, againit the incu-fons of his neighborrs, he m: de himfelf refpected abroad, received ambaffadors from a!moft all the powers of Europe; and after feveral attempts to enlarge his territories at the expence of Sweden, he concluded with that kingdom an honourable and advantageous al-

An. 1601 ,
hance.

Soon after the commencement of his reign, the city of Mofco was defolated by one of the moft dreadful famines recorded in hifory. Thoufands of people lay dead in the ftreets and roads; and in many houfes the fatteft of their inmates was killeel, to ferve as food for the reft. Parents are faid to have eaten their children, and children their parents; and we are told by one of the writers of that time (Petrius), that he faw a woman bite feveral pieces out of her child's arm os fhe was carrying it along. Another relates, that four women having defired a peafant to come to one of their houles, on pretence of paying him for fome wood, killed and devoured both hin and his horfe. Ithis dreadful calamity lafted three years; and notwithfland ng all the exertions of Boris to provide for the neceffities of the inhabitants
of Mofeo, we are uffared that not fewer that 500,005 periflaed by the farnine.

During thefe ditirelies of the eapital, the power of Boris was themened with amai, viation by an ndventurer invof nof who fudde -ly fanted up, and pretended to be the yous g d p :nce Dini.in, whom all believed to have been allat - irinated, or, as Loris had given out, to have died of a mälignant fiver. 'This adventurer was a mork nomed Otrepief, who leaming that be greatiy retembled the late Dimitri, conccived the project of paffing for that pricc, and endeavouring, in that character, to afcend the Rufian throne. He retired from Ruffia into Poland, where be had the desterity to ingratiate himfeif with fome of the principal nobles, and periuade thom that he was really Prince Dimitri, the lawful heir to the crown of Rufia. The better to infure to limefeif the fupport of the Poles, he learned their lan uage, and profeffed a great regard for the Catholic religion. By this laft artifice be both gained the attachment of the Catholic Pols, and acquired the f.jendhip of the Roman pontiff, whofe blefing and paironsge in his great undertaking he fa:ther : cured, by promiling the, as oon as he diould have eitabhilled limelf on the throne, ho would nake every exertion to bring the Fivifians within the pale of the Carholic church. To ti.e external graces of a fine perfon, the pretended Dimitri added the charms of irrefitibie cloqueace; and by the e necomplifuments he won tie affections of many of 1 ! e molt powerful among the Pcliik nobility. In particulaz the voivede of Ser.Gorir was fo much captivated by lis adidefe, that he rict orly cfpouted his caule, but f1? mi ed to five him his dawghier in marriage, as foon as lie fiould be placed on the tlrome of his rathers. 1 his refuctable m* excted himfelt fo warnly in belalf of his intended ion-in-aw, that be broug't over even the king of Poland to his party. The Kozaks of the D20n, who were oppleffied by Roris, hoped to gain at leilt a temporary advantage by the ditturbance excited in fan vour of the adventurer, and eagetly embracec the opportunity of dectaring in his favour. The news of Prince Dimitri being fill alive, foom penetrated into Ruffia; and though Bo-is did all in lis power to defroy the illufon, by prohitiang all interccusfe between his fabjects and the Poles, and by appea ing to the evidence of the murdered prince's motacr in proof of his death, the caufe of the preteader continued to sain ground. Waxy circumfances concurred to interett the Ruffian people in favour of Otrepief. Fle had prepared a manifefto, which he caufed to be diliferied through the empire, and in which be affirmed himelf to be the fon of Ivan, and afferted hes right to the throne then ufurped by Loris. The coarticrs of the niurper, who had long teen jealous of his elevation, pretended to believe thele affertions; nl lie thule who were perfuaded that the young prince had been muxderd by oider of the frefent tzar, regarded this event as a judgenent from heaver. Tlse greater part of the mation appeax to have beeo perfuaded, that the preiender was the real Dimitri; and as they beliered that fe had been miraculoufly proierved, they pie ufly refolved to conear with the hind of Providence in affiti.g him to recover his juf rigbts. 'Thus; before he fet foot in Ruffa, a numerous party was formed in his behalf. He foon made his appearance on the fiortiers with a regiment of P lifh troops, and a body of Kozaks. Boris fent an army

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Ruma. to oppofe lim ; but though the number of thefe troops gready exceeded the fimall force of Dimitri, thefe latter were fo anisnated by the eloquence ol their leader, and the intrepidity and perfonal bravery which he dilplayed in the field of battic, that, after a bluody contlict, the army oi Buris was defeated, and the pretended Dimitri remained umater of the feld. and victory, over a iuperior army, ferved fill further to ftrengthen the belief, that Dimitri was favuured by heaven, and coafequently could not be an impoitor. To confirm the good opinion which he had evidently acquired, the victor treated his pifoners with great kindueis; caufed the dead to be decently interred, and gave flrict iajunetions to his troops to bebave with humanity in the towns through which he paffed. This gentle behaviour, when contrafled with the horrible exceffes committed by the foldiers of Baris, wherever the people appeared to thew any inclination towards the carie of the invader, gained Dimitri more adherents tian even the perfuafion that he was the lawful fovereign of the country. Uuluckily for Boris, the fuperfition of the Rurians was about this time directed againft him, by the appearance of a comet, and by more than ufual corrufcations of the aurora borealis, phenomena which were immediately regarded as manifelt demonirations that the Almighty was pouring out his phials of wrath oa the devoted country. It was almoft teniverlally believed, that the awful effects of thefe aiarming appearances could be averted oaly by fupporting the caule of Dimitri, who had hitherto been fo fignally protected, and brought to light by the band of heaven. Boris, unable to refit the torrent of public opinion in favour of his rival, is faid to have taken poifon, and thos haftened that fate which be forefaw awaited him, if he thould fall into the hands of his encmies.
An. 1605. The death of Boris took place in the jear 1605 ; and though the principal nobility at Mofco placed tiis fon Feodor on the throne, the party of Dimitri was now io ftrong, that Feodor was dethroned and fent to prifou with his nother and fifter, within fix weeks after his ac-
ceflion.

The faccefful monk had now attained the fummit of his ambitious hopes, and made bis cntry into Mofso with the utmoft magnificence, attended by his Ruffian adberents, and his Polifh friends. Nat deemines himfelf fecure, however, while the fon of Boris remained alive, he is faid to bave caufed him to be ftrangled, together with one of his filters. The new tzar, though be cridently poffefied great abilities, feems to have been deficient in point of pradence. Inftead of conciliating the favour of his fubjects, by attention to their interefts, and by conferring on the chief men among them the titles and honours that were at his difoofal, he openly difpiayed his predilection for the Poles, on whom he conferred high poits and dignities, and even connived at the extruvagance and enormities which they committed. This impolitic conduct, together with his partiality for the Catholic religion; his marked indifference towards the public warfhip of the national church, and his want of reverence for the Greek clurgy; his marrying a Polith Jady; his affectation of Polih manners; his inordinaie voluptuoufnefs, and the coniempt with which he treated the principal nobility; fo irritated and exafperated the

Fuffians, thist difcontems and iofurrections arofe in every quarter of the exppire; and the joy with which he had been at firt received, was converted into indillerctice, conterapt, and deteftation. The Ruftians foon ditiovered, from a curious ciecuraflance, that their new is. vereign could not be firung from the blood of their ancient tzars. Thefe had ueen always lifted on their horfes, and rode along with a flow and folemn pace, whereas Dimitri beltrud a furious thallion, wheli he mounted without the help of his attendants. In adilition to thefe fources of difcontent, it was rumoured that a timber fort, which Dimitri had cauled to be constructed before Muico, was iutended to ferve as an engine of deftruction to the inbiabitants, and that at a martial fpectacle which the tzar was prepuring for the entertainment of his bride, the Poles, and other toreigners that compofed his body guard, were, from this buiding to caft firebrands inta the city, and then llaughter the inhabitants. This rumour increated their batred to fury, and they refolved to wreak their vengeance on the deyoted tzar. The populace were ftill farther incen!ed by the clergy, who declaimed againdi Dimitri as a heretic, and by Schuifkoy, a noblcman who had bee:1 condemned io death by the tzar, but had afierwards been pardoned. This nobleman put himfelf at the head of the enraged roob, and led them to attack the tzarian palace. This they entered by affault, put to the liword all the Poles whom they for red within its walls, and afterwards extended their maflacre to fuch as were ditcovered in other parts of the city. Dimitri bimfelt, in atterapting to elicape, was overtaken by his purfucrs, and thruft tarough with a fpear, and his dead body being brought back irto the city, lay for thrce days before the palace, expofed to every infult and outraje that malice could invent, or rave intlict. His father-in-law ard his wife efcaped with their lives, but were detained as prifoners, and the tzaritza wos conined at Yarollasl.

Schuifsoy, who had preterded to be actuated by no Uriettict other motives than the pureit patriotifm, now afpined to ate of the vacant throne, and had fufficient intereft to carry his election. His reign was fhort and uninterefling, and indeed from this time till the accefiun of the houle of Romanof in 1613 , the affairs of Rufia liave listle to gratify the curiofily of our readers. Schuifkoy's fhort xeign was diturbed by the pretenfuns of two fictitious Dimitris, who fucceflively farted up, and declared themfelves to be either the late tzar, or the prince whom he had perfonated ; and his neip lobours the Sisedes and Poles, takiag advantage of the internal cildodions in the empire, made many fuccefsful incurfions in) o liufia, fet fire to Mofio, and mafiacred abuve 100,000 of the peopic. The Ruffans, difiatisficd with the reigning prince, treated with feveral of the ecighbouring potentates for the difpofal of the imperial crown. Thry oflered it to Vladillaf, or Uladilaus, fon of Sisifmund, king of Poland, on condition that he fhould adopt ihe Greek perfuafion; but as he rejected this prelininary, they turned their eyes, firft on a fon of Charles IX. of Sweden, and laftly, on a young native Ruflian, M khail Feodorovitch, of the houfe of Romanof, a iamily diftantly related to their anciont tzats, and of which the head was then metropolitan of Roffof, ard was lield in great effimation. Thus, afier a long feries of con ufion and diGafter, there afcended the R. Fian throne a

E Mflie. $\xrightarrow{\longrightarrow}$

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Rufita. nevv famity, whofe defcendants have raifed the empire to a 'fate of grandeur and importance unequalled in any former period.

We have feen the calamities brought upon the empire by the partitions of its early monarchs, and the wars to which thele partitions gave birth; by the invafions and tyraniny of the Tartars; and laitiy, by the difturbances that prevailed from the machinations of the falfe Dimitris. We have obferved the depreflion which the empire fuffered under thefe calamities. We are now to witnefs its fedden elevation among the powers of Europe, and to accompany it in its hafty ftrides towards that importance which it has lately affumed. But before we enter on the tranfactions that have enriched the pages of the Ruffitan annals fince the acceffion of the houle of Romanof, it may not be improper or uninterefting, to take a general view of the ftate of the empire
90 at State of the Ruffian empire at the beginning of the ${ }^{2} 7^{\text {th }}$ censary.

At this period the government of Ruffia may be confidered as a pure ariftocracy, as all the fupreme power refted in the hands of the nobles and the fuperior clergy. In particular the boyars, or chief officers of the army, who were alfo the privy counfellors of the prince, pof feffed a very confiderable flare of authority. The elec-
tion of the late princes Boris, Dimitri, and Schuilkoy, had been conducted principally by them, in concert with the inhabitants of Mofco, where was then held the feat of government. The common people, efpecially thofe of the infenior towns, though nominally free, had no fhare in the government, or in the election of the chief ruler. The boors, or thofe peafants who dwelt on the noblemen's eftates, were almofl completely flaves, and transferable with the land on which they dwelt. An attempt to do away this barbarous valfalage had been made, both by Boris and Schuilkoy, but from the oppofition of the nobles it was abandoned.

The laws in force at the time of which we are no: fpeaking, confifted partly of the municipal laws drawn up for the ftate of Novgorod by Yarollaf, and partly of an amended code, cailed fudiebnik, promulgated by Ivan Vafilivitch II. By this fudelonik the adminiftration of the laws was made uniform throughout the empire, and particular magiftrates were appointed in the feveral towns and diftricts, all fubject to the tzar as their chief. The fudebnik confiited of 97 articles, all containing civil laws, as the penal fatutes are only briefly mentioned in fome articles, fo as to appear either connected with the civil, or as ferving to illuftrate them. The criminal laws were contained in a feparate code, called gubnaia gramota, which is now lott, but is referred to in the civil code. In neither of thefe codes is there any mention of ecclefiaftical affairs; but thefe were regulated by a fet of canons drawn up in 1542, under the infpection of Ivan Vafiliivitch, in a grand council held at Mofco. In the civil flatutes of the fudebnik, theft was punifhed in the firf inftance by reAtitution, or, if the thicf were unable to refore the property folen, he became the flave of the injured party, till by his labour he had made fufficient compenfation. Of murder nothing is faid, except where the perfon llain was a lord or mafler, when the murderer was to be punilhed with death. There is no mention of torture, exsept in cafes of theft.

Before the acceffion of the houfe of Romanof, the
commercial intexcourfe which the cities of Novgorod and Picove, formerly held with the Hans towns, had entirely ceafed; but this was in lome degree compenfated by the nervly eftablifthed trade between Ruffia and England, the centre of which was Archangel. This trade had been lately increaled by the products derived from the acquifition of Siberia, in exchange for which the Englifh principally fupplied the Ruflans with broad cloth. In 1568, an Englifh counting-houfe was eftablifhed at Molco, and about the fame time the Ruflian company was incorporated. Previous to the 15 th century, the trade of the Ruflians had been carried on mereiy by barter, but during that century the coinage of money commenced at Novgorod and Ploove; and from this time their commerce was placed on an equal footing with that of the other European nations.

Except in the article of commerce, the Ruffians were deplorably behind the reft of Europe; and though attempts had been made by Ivan I. Ivan Vafiliivitch II. and Boris, to cultivate their manuers and improve the fate of their arts and manufactures, thefe attempts had failed of fuccefs. The following characteriftic features of the ftate of Ruffia in the 16 th century, are given by Mr Tooke.

The houfes were in general of timber, and badly confrructed, except that in Mofco and other great towns, there were a few houfes built of brick.

That contempt for the female fex, which is invariably a characterittic of defective civilization, was confpicuous among the Ruffians. The women were kept in a fate of perfect bondage, and it was thought a great infance of liberality, if a ftranger were-but permitted to fee them. They durit feldom go to church, though attendance on divine worlthip was confidered of the higheit importance. They were conftantly required to be within doors, fo that they very feldom enjoyed the frefh air.

The men of the middie ranks always repaired about noon to the market, where they tranfacted bufinefs together, converfed about public affairs, and attended the courts of judicature to hear the caufes that were going forward. This was undoubtedly a practice produciive of much good, as the inhabitants of the towns by thefe means improved their acquaintance, interchanged the knowledge they had acquired, and thus their patriotic affections were nourifhed and invigorated.

In agreements and bargains the higheft affeveration was, "If I keep not my word, may it turn to my infamy," a cuftom extremely honourable to the Rufians of thofe days, as they held the difgrace of having forfeited their word to be the deepeet degradation.

If the wife was fo dependent on her hufband, the child was ftill more dependent on his father; for parents were allowed to fell their children.

Mafters and fervants entered into a mutual contract refpecting the terms of their cornection, and a written copy of this contract was depofited in the proper court, where, if either party broke the contract, the other might lodge his complaint.

Single combat fill continued to be the laft refource in deciding a caufe; and to this the judge reforted in cafes which he knew not otherwife to determine : but duels out of court were Arietly prohibited; and when thefe took place, and either party fell, the furvivor was
regarded

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Romiaี regarded as a murderer, and punified accordingly. Perfonal vengeance was forbidden under the ftricteft penalties.

The nobles were univerfally foldiers, and were obliged to appear when fummoned, to affift the prince in his wars.

Till the end of the 16 th century, the boor was not bound to any particular mafter. He tilled the ground of a nobleman for a certain time on ftated conditions. Thus, he either received part of the harvelt or of the cattle, a portion of wood, hay, \&zc. ; or he worked five days for the mafter, and on the fixth was at liberty to till a piece of ground fet apart for his ufe. At the expiration of the term agreed on, either party might give up the contraft to the other ; the boor might remove to another mafter, and the mafter difmifs the boor that did not fuit him.
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 ees thatled to the election of Mikhail Romanof.

During the troubles and diffenfions in which the empire had been involved, fince the death of Feodor Ivanovitch, the chief men of the ftate were divided into feveral parties. Of thefe, one fought to elevate to the throne a Polifh prince, while another rather favoured the fucceffion of a Swede. A third, and by far the ftrongeft party, were defirous to place upon the throne a native Ruffian; and they foon turned their eyes on Mikhail Romanof, a diftant relation of the ancient family of the tzars, whofe father was metropolitan of Roftof. The clergy feemed particularly interefied in this choice, as they juftly concluded, that a Ruffian, born and brought up in the orthodos Greek faith, would moit effectually prevent the poifon of Catholic opinions or Proteftant herefy, the introduction of which was to be feared from the acceffion of a Polifh or a Swedifh monarch. Accordingly, the voice of a fingle ecclefiaftic decided the electors in favour of Mikhail. A metropolitan declared in the hall of election, that it had been announced to him by divine revelation, that the young Romanof would prove the moft fortunate and profperous of all the tzars who had filled the Ruffian throne. This revelation had an immediate effect on the electors, as their reverence for the fuperior clergy was fo great, that none could prefurne to doubt the veracity of a perfon of fuch exalted rank and facred function. The revelation once made public, the people too exprefled fo decidedly their defire to have the young Romanof for their fovereign, that all foon united in their choice. The young man himfelf, however, refufed the proffered honour, and his mother, dreading the fate that might arife from fo dangerous an elevation, with tears implored the deputies to depart. The modeft refufal of Mikhail ferved only to perluade the people, that he was the moft worthy object on which they could fix their choice; and at length the deputies rcturned to Mofco, bringing with them the confent of the monarch elect. The coronation took place on the IIth of June 1613 , and thus the views of Poland and of Sweden, as well as the defigns of Marina, the widow of the firft pretender Dimitri, who fill contrived to keep a party in her favour, were entirely fruftrated.
An. $16 \div 3$.
$9^{9}$ makes peace with the Swedes and Yoles.
effected withont confiderable facrifices. Mikhail agreed to give up Ingria and Karilia, and to evacuate Eithonia

Rufic. to give up Ingria and Karilia, and, to evacuate tivonia. Thus freed from his mot dangerous enemy, Nikhail prepared to oppofe the Poles, of whom a numerous body had entered Ruflia, to fupport the claim. of their king's fon, Vladiflaf. Nikhail proceeded, horvever, in a very wary manner, and inftead of oppoling the invaders in the open field, he entrapped them by ambufcades, or allured them into diftricts already defolated, where they fuffered to much fiom cold and hunger, that in 1619 they agreed to a ceflation of hoftilities for fourteen years and a half, on condition that the Rufians fhould cede to Poland the government of Smolenf.

Thus freed from external enemies on terms which, His prudent though not very honourable, were the belt that the conduct. then pofture of his affairs admitted, Nikhail fet himfelf to arrange the internal affairs of his empire. Hic began by placing his father at the head of the cliurch, by conferring on him the dignity of patriarch, which had become vacant. The couniels of this venerable man were of great advantage to Mikhail, and contributed to preferve that peace and tranquillity by which the reign of this monarch was in general dittinguithed. Ihe tzar's next ftep was to form treaties of alliance with the principal commercial fates of Europe. He accordingly fent ambaffadors to England, Denmark, Holland, and the German empire; and Ruffia, which had hitherto been confidered rather as an Afiatic than a European power, became fo refpectable in the eyes of her northera neighbours, that they vied with each other in forming with her conmercial treaties.

Mikhail alfo began thofe improvements of the laws which we fhall prelently fee more fully executed by his fon and fucceffor; but the tide of party ran fo ligh, that he could do but little in the way of reformation. He was alfo obliged to put his frontiers in a tlate of defence, to provide for the expiration of the truce with Poland, which now drew nigh; and as no permanent peace had been eftablihed, both parties began to prepare for a renewal of hoftilities. Indeed the armiftice was broken by the Ruffians, who, on the deatb of Sigifmund, king of Poland, appeared before Smolenk, and juftified the infringement of the treaty, on the pretext that it was concluded with Sigifmund, and not with his fucceflors. Nothing of confequence, however, was done before Smolenfk; and the Ruffian commander, after having lain there in perfect indulence, with an army of 50.000 men, for two years, at length raifod the liege. Nithail attempted to cngage the Swedes in an alliance with him againf Poland; but failing in this negociation, patched up a new treaty, which continued unbroken till his death. This happened in 1645 .

Nikhail was fucceeded by his fon Alexei; but as the An. 16. ene $^{\circ}$ young prince was only is jears of age at his fatiner's 04 death, a nobleman named Morof of had been appuinted Al-xei his 'governor, and regent of the empire. 1t.s man Mikha :poffelied all the ambition, without the prudence and ad- wicth. drefs of Boris, and in atiempting to raile himfelf and his adherents to the higheft pofts in the ftate, lee incurred the hatred of all ranks of peoplc. Thoug b Morolof, by properly organizing the army, provided for the defence of the empire ngainft external enemac, he flamefully neglected internal policy, and conrwed at the moft flagrant erormitics in the adminilration of
ju'i.ss.

## R S S E

Ruffia juntice, Thele, abufes went fo far, that the populace once ftopped the tzar as he was returaing from charoln to his palace, calling aloud for righteous judges. Though Alexei promifed to make trict enquiry into the neture and cstent of their gricvances, aad to inliict deferved punithment on the guilty, the people had not patience to await this tardy procefs, and proceeded to plunder the houfes of thofe nobles who wcre mot obnoxious to them. They were at length pacified, however, on condition that the author of their oppreflion fhould be brought to condign punilhment. One of the maft nefarious judges was put to death; and the principal magittrate of Mufco fell a victim to their rage. The life of Morofof was fpared at the earneft entreaty of the tzar, who engaged for his future good behaviour.

Sirailar difturbances had broken out at Novgorod and Pfcove; but they were happily terminated, chiefly through the exertions of the metropolitan Nicon, a man of low birth, but who, from a repulation for extraordinary piety and holinefs, had raifed bimfelf to the patriarchal dignity, and was high in favour with Alexei.

Thefe commotions were fcarcely affuaged, when the internal tranquillity of the empire was again threatened by a new pretender to the throne. This man was the fon of a linendraper, but gave himfelf out at one time for the fon of the emperor Dimitri, at another for the fon of Schuifioy. Fortunately for Alexei the Poles and Swedes, whofe intereft it was to have fomented thefe intefline difturbances, remained quiet fpectators of them, and the pretender meeting with few adherents, was foon taken and hanged.

The pacific conduct of the neighbouring ftates did not long continue, though indeed we may attribute the renewal of homitities to the ambition of the tzar.

The war with Poland wes occalioned by Alexei's fupporting the Kozaks, a military horde, who had left the northern fhores of the Dniepr, and retired further to the fouth. Here they bad eflablifhed a military denocracy, and during the dominion of the Tartars in Ruffia, had been fubject to the khan of thofe tribes; but after the expulfion or fubjugation of the Tartars, the Kozaks bad put themifelves under the guardian@lip of Poiand, to which kingdom they formerly belonged. As the Polihh clergy, h wever, attempted to impole on them the G:eek faith, they threw off their allegiance to the king of Poland, and claimed the patronage of Ruffia. Aicxei, who feems to have fuught for a pretext to bieak with Puland, gladly received them as his fubjects, is he hoped, with their affitance, to recover the tertitories that had been ceded to Poland by his father. He began by negociation, and fent an en bafly to the king of Poland, complaining of fome Polith publications, in which rellections had been calt on the honour of his father, and demandine that by way of compenfation, the Tuffian territories formerly ceded to Poland mould be tellored. The king of Poland of coutie refufed fo arrogrant a demand, and both purties prepared for war. The Ruflians, affifted by the Kozaks, were fo fucceffful in this contef, that the king of Sweden became jealons of A.1:, xei's gocd fortune, a:id apprelierfive of an attack. He therefore determined to tahe an active part in the war, efpecially $a=$ the Lithuanians, who were extremely averie to the Ruftian dominion, had fought his protection. The war with Sweden commenced in 1656 , and conturued for two years, without any important advan-

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tage beiagngained by xither party. A truee wasicon. clasted in $16 \delta^{3}$, for three years, and at the termination of this period, a fulid peace was eftablithect. In the mean time the war with Polaod continued, but was at length terminated by an azmiltice, which was prolonged from time to time, during the remainder of Alexei's reign.

The reign of this monarch is as remarkable for turbulence, as that of his predecenor bad been for twanquillity. No fooner was peace eftabïhed with the neighbouring ftates than frefh commotions flook the empire from within. The Don Kozaks, who now formed a patt of the Ruffian population, felt themfelves aggrieved by the rigour with which one of their officers had been treated, and placing at tbeir bead Radzin, the brother of the deceafed, broke out into open rebellion. Allured by the fpirit of licentioufnefs, and the hopes of plunder, vaft numbers both of Kozaks and inferior Ruffians flocked to the ftandard of Radzin, and formed an nemy of nearly 200,000 men. This force, however, was formidable merely from its numbers. Radzin's followers were without alms, without difcipline, and were quite unprepared to fland the attack of regular troops. Radzin himfelf feems to bave placed no reliance on the courage or fidelity of his followers, and eagerly embraced the firf opportunity of procuring a pardon by fubmiffion. Having been deceived into a belief that this pardon would be granted on his fur. rendering himfelf to the mercy of the tzar, he fet out for Mofco, accompanied by his brother; but when he was arrived within a fhort diftance of the capital, whither notice of his approach had been fent, he was met by a cart containing a gallows, on which he was hanged without ceremony. His followers, who had affembled at Aftracan, were furrounded by the tzar's troops, taken prifoners, and 12,000 of them hung on the gibbets in the highways. Thus this formidable rebellion, which had threatened to fubvert the authority of Alexei, was crufhed almott at its commencement.

The influence which Alexei had obtained over the Donkoi Kozaks, excited the jealoufy of the Sublime ment ol a Porte, who juftly dreaded the extenfion of the Ruffian war with territory on the fide of the Crimea, a peninfula which at Turksy. that time telonged to Turkey. Afier a focceffful attempt on the frontiers of Poland, a Turkifh aimy entered the Ukraine, and the Roffians made preparations to oppofe them. Alexei endeavoured to form a confederacy againft the infidets among the Chrittian potenLates of Earope; but the age of cruifading chivalry was over, and the tzar was obligged to make head againft the Turks, affited by his fingle ally the king of Poland. The Turkifh arms were for forme years victorious, efpecielly on the fide of Poland, but at length a check was put to their fucceffes by the Polifh general Sobiefki, who afterwards afcended the throne of that kingdom. Hoftilities between the Turks and Ruffians were not, however, terminated during the reign of Alexei, and the tzar left to his fucceffor the profecution of the war.

Ihe reign of Alexei is $\mathbf{n}$ oft remarkable for the improvements introxluced by bim into the Ruffian laws. Lefore his time the emannoi ukafes, or perfonal orders of the fovercisn, were almoft the only laws of the coun- the try. Thefe cdicts were as various as the opinions, prejuulices, and paffions of men; and before the days of Alexci they rroduced endlefs contentions. To remiedy





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this evil, he made a felection from all the edicts of his predeceffors, of fuch as had been current for 100 years; pre uming that the e eiticer were fourded in natual julisce, or during to long a currency liad formed the minds of tha people to confider titun as juft. Tivis cigget, which he declazed to be the conmon law of Rutlia, and which is prelaced by a if it of imitute, is krowa by the title of the Ulogezie or $S$ lectirn, and was long the thandard law book : and all edicts prior to it were declazed to be obloietc. He loon made his new code, however, more bulky than the Selection; and the adeitions by his fucceflors are beyond enumeration. 'i his was undout tedly a breat and nieful work; but Alexei performed another thill greater.

Though there were many courts of judicature in this widely extended empire, the en pror was always lord paramourt, and could tike a caule trom any court inmediutely before limilelf. Wut as leveral of the old nobles had the remains of principalities in their fumilise, and h- th their cun courts, the foveeeign or his minifers, at a ditance up thie count:y, frequently found it d flicult to bring a culprit out of one of thele hereditary feudal jurididictions, ant try lim by the lavs of the empire. Tlis xaja ve:y diíarreable limitation of imperinl power; and the more fo, that fome families, clain:ed even a right of replevance. A lucky opportunity focin ofiered of fet ling the difiute, and Alexei embraced it with great ability.

Some families on the old frontiers were taxed with their defence, for which they were obliged to keep regiments on foot; and as they were but feartily indemnified by the flate, it fometimes required the exertion of authority to make them keep up their levies. When the frontiers by the conqueft of Kazan were far extended, thofe gentlemen found the regiments no longer burdenfome. becaule by the help of falfe mufters, the formerly fcanty allowance much more than reimburid them for the expence of the eftablifnment. The confequence was, that difputes arofe among them about the right of guarding certain diftriets, and law fuits were neceffary to fetle their refpective claims. Thefe were tedious and intricate. One claimant fhowed the order of the court, iflued a century or two back, to his anceftor, for the marching of his men, as a proof that the right was then in the family. His opponent proved, that his anceftors had been the real lords of the marches; tat that, on account of their negligence, the court had iffued an emmanoy ukafe to the other, only at that particular period. The emperor ordered all the family archives to be brought to Mofco, and all documents on both fides to be collected. A time was fet for the examination; a fine wooden court-houfe was built, every paper was lodged under a good guard; the day was appointed when the court frould be opened and the claims heard; but that morning the houfe, with all its contents, was in two hours confumed by fire. The emperor then
faid, "Gentlemen, henceforward your ranks, your privileges, and your courts, are the nation's, and the nation will guard itfelf. Jour achives are unfortur ately loit, but thofe of the nation remain. I am the ket el, and it is my duty to adminiller jultice for all and to all. Your manks are not privat, but nati-nal; att-ched to the fervices you are acturily perforn i. \%. Henceforward Coloncl Buturlin (a private gemieman) ranks Lefore Captain Viazemi\&y (an uid punce)." (F)

The Rulfians owe more to this pri ce than many of He exterds their hifiorius feem willing to acknowledge; and there the comfeems no duubt that forne of the improvernents atterbuted to Peter the Great, were at $k \cdot \neq \mathrm{pr}$ jeted by his father. Under Alesui a confiderable trade was opened with China, from which country filks, and other ich fuff, rhubarb, tea, \&ic. were b:ought inlo Ruffia, and exchanged for the stikerion furs. Tlie exportation of Fuffian products to other countries was allo incre.. led ; and we are alfured that Alexei had even pre jected the formetion of a navy, and would have evecuted the defin , had he not been perpetually occupsid in foreign wars and domeftic troubles.

Alexci died in 1676 , leaving three fons and fix An. 1676 . deughters. 'Two of the fons, Feodor ar.d Ivan were 99 by a firt marriage; the third, Peter, by a fecond. The Rcign of two former, particularly Ivan, were of a delicate conltitution, and forme attempts were made by the relations of Peter, to fet them afide. 'Thele attempts, however, proved unfucceffful, and Feodor was appointed the fucceffor of Alexei.

The reign of this prince was fhort, and diffinguifhed rather for the happinefs which the nation then experienced, than for the importance of the tranfactions that took place. He continued the war with the Turks for four years after his father's death, and at lengils brought it to an honourable conclufion, by a truce for 20 years, after the Turks had acknowledged the Ruffian right of fovereignty over the Kozaks. Feodor died in 1682 , but before his death nominated his half-brother Peter his fucceffor.

The fucceffion of Peter, though appointed by their An. r682. favourite tzar Feodor, was by no means plealing to the I tilucs majority of the Ruffian nobles, and it was particularly of the prino oppofed by Galitzin, the prime ininifter of the late tzar, cuis suph:a. This able man had efpoufed the intereit of Sophia, the filter of Fecdor and Ivan, a young woman of eminent abilities, and the moft infinuating addrefs. Soplia, upon pretence of afferting the claims of her brothex Ivan, wh ?, though of a feeble conftitution and weals intelleels, w..s confidered as the lawful heir of the croun, had really formed a defign of fecuring the fucceflion to herfilf; and, with that view, had not only infinuated herlelf iato the confidence and goou graces of Gaiitzin, but lad brought over to her interelts the Strelitzes (G). Tincle licentious foldiers affembled for the purpole, as was pretended, of placing on the throne Prince Ivan, whom they

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 they proclaimed tzar by acclamation. During three days they roved about the city of Mofco, committing the greateft exceffes, and putting to death feveral of the chief officers of flate, who were lufpected of being boftile to the defigns of Sophia. Their employer did not, however, enti:ely gain her point; for as the new tzar entertained a fincere affection for his half-brother Peter, he infited that this prince fhould thare with hiro the imperial dignity. This was at length agreed to; and on the 6th of May 1682, Ivan and Peter were folemnly crow:aed joint emperors of all the Ruffias, while the princels Sophia was nominated their copartner in the government.From the imbecility of Ivan and the youth of Peter, who was norv only 10 years of age, the whole power of the government refted in Sophia and her minifter Ga- litzin, thongh till the year 1687 the names of Ivan and Peter only were annexed to the imperial decrees. Scarcely had Sophia eftablifhed her authority than fhe was threatened with depofition, from an alarming infurrection of the Strelitzes. This was excited by their commander Prince Kovankoi, who had demanded of Sophia that fle would marry one of her fifters to his fon, but had met with a mortifying refufal from the princefs. In confequence of this infurrection, which threw the whole city of Mofco into terror and confternation, Sophia and the two young tzars took refuge in a monaftery, about 12 leagues from the capital; and before the Sirelitzes could follow them thither, a confiderable body of foldiers, principally foreigners, was affembled in their defence. Kovanfkoi was taken prifoner, and inftantly beheaded; and though his followers at firft threatened dreadful vengeance ou his executioners, they foon found themfelves obliged to fubmit. From every regiment was felected the tenth man, who was to fuffer as an atonement for the reft; but this cruel punifhment was remitted, and only the moft guilty among the ringleaders fuffered death.

An. 1687 .
102 The party of Peter gains ground.

The quelling of thefe difturbances gave leifure to the friends of Peter to purfue the plans which they had formed for fubverting the authority of Sophia; and about this time a favourable opportunity offered, in confequence of a rupture with Turkey. The Porte was now engaged in a war with Poland and the German empire, and both thefe latter powers had folicited the affiftance of Ruffia againf the common enemy. Sophia and her party were averfe to the alliance; but as there were in the council many fecret friends of Peter, thele had fufficient influence to perfuade the majority, that a Turkith war would be of advantage to the ftate. They even prevailed on Galitzin to put himfelf at the head of the army, and thus removed their principal opponent. It is difficult to conceive how a man, fo able in the cabinet as Galitzin, could have fuffered his vanity , fo far to get the better of his good fenfe, as to accept a military command, for which he certainly had no talents. Affernsling an army of nearly 300,000 men, he marched towards the confines of Turkey, and here confumed two campaigns in marches and countermarches, and loft nearly 40,000 men, partly in unfuccelsful @kirmifies with the cnemy, but chiefly from difeafc.

While Galizein was thus trifling away his time in the foulh, Peter, who already began to give proofs of thofe great talents which afterwards enabled him to act fo confpicuous a part in the theatre of the north, was
ftrengthenir ; his patty among the Ruffian nobles. His ordinary redidence was at a village not far from Mofco, and bere he had affembled runnd him a conficerable number of young men of rark and influerce, whom he called his play-mates. Among tbefe were two foreigners, Lefort a Genevele, and Gordon a Scotchman, who afterwards fignalized themfelves in bis fervice. Thele young men had formed a fort of military company, of which Lefort was captain, while the young tzar, beginning with the fituation of drummer, graduaily rufe thirough every lubordinate office. Under this appodrance of a military game, Peter was fecretly effablifing himfelf in the affections of his young companions, and effectually lulled the fufpicions of Sophia, till it was too late for her to oppole bis machinations.

About the middle of the year 1689 , Peter, who had An. 1689. now attained his feventeenth year, determined to make an effort to deprive Sophia of all flare in the government, and to fecure to himfelf the undivided fovereignment, and to fecure to himielf the undivided lovereign-undivided
ty. On occafion of a folemn religious meeting that fovereignty. was held, Sophia had claimed the principal 1 lace as regent of the empire; but this claim was frenuoufly oppofed by Peter, who, rather than fill a fubordinate fituation, quitted the place of affembly, and, with his friends and adberents, withdrew to the monaftery of the Holy Trinity, which had formerly fheltered him and his copartners from the fury of the Strelitzes. This was the fignal for an open rupture. Sophia, finding that fie could not openly oppofe the party of the tzar, attempted to procure his affaffination; but as her defign, was difcovered, the thought proper to folicit an accommodation. This was agreed to, on condition that the fhould give up all claim to the regency, and retire to a nunnery. The commander of the Strelitzes, who was to have been her agent in the affaffination of Peter, was beheaded, and the minifter Galitzin fent into banifhmént to Arcbangel.

Peter now faw himfelf in undifputed poffeffion of the He efta. imperial throne; for though Ivan was fill nominally blifhes a tzar, he had voluntarily refigned all participation in the adminiftration of affairs, and retired to a life of obmilitary
and nava! fcurity. The firf object to which the tzar directed his attention was the eftablifhment of a regular and well-difciplined military force. He had learned by experience how little dependence was to be placed on the Strelitzes, and thefe regiments he determined to dibband. He commiffioned Lefort and Gordon to levy new regiments, which, in their whole conftitution, drefs, and military exercifes, fhould be formed on the model of other European troops. He next refolved to carry into execution the defign which had been formed by his father, of confiructing a navy. For this purpofe he firft took a journey tu Archangel, where he employed himfelf in exmining the operations of the fhipwrights, and occafionally taking a part in their labours; but as he learned that the art of Alip-building was practifed in greater perfection in Holland, and fome other maritime conntries of Europe, he fent thither \{everal young Ruffians to be initiated into the beft methods of conftrueting hips of war. The other meafures taken by Peter for ettablifhing a navy, and the fuccefs with whiclr they were attended, have been already relatcd under his life*, *See Peter to which we may refer our readers fur feveral circum- I. fances relating to his life and character; as our object bute is no: to write a biogragly of this estraordinaty

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man, but briefly to narrate the tranfagions of his reign.

The war with Turkey fill languifhed, but Peter was refolved to profecute it with vigour, hoping to get poffeffion of the town of Azof, and thus open a pafiage to the Black fea. He placed Gordon, Lefort, and two of his nobles at the hend of the forces deftined for this expedition, and himfelf attended the army as a private nolunteer. The fuccefs of the firf campaign was but trifling, and Peter found that his deficiency of artillery, and his want of tranfports, prevented him from making an effequal attack on Azof. Thefe difficuties, however, were foon furmounted. He procured a fupply of artillery and engineers from the emperor and the Dutch, and found mears to provide a number of tranfports. With thefe auxiliaries he opened the fecond campaign, defeated the Turks on the fea of Azof, and made himfelf maHer of the town. Peter was fo clated with thefe fucceffes, that on his return from the feat of war, he marched his troops into Mofco in triumphal proceflion, in which Lefort, as admiral of the tranfports, and Scheim as commander of the land forces, bore the moft confpicuous parts, while Peter himfelf was lof without diftinction in the crowd of fubaltern officers.

He now refolved to form a fleet in the Black fea; but as his own revenues were infufficient for this purpofe, he iffued a $u k a f$, commanding the patriarch and bther dignified clergy, the nobility and the merchants, to contribute a part of their income tovards fitting out a certain number of niips. This proclamation was extremely unpopular, and, together with the numerous innovations which Peter was every day introducing, efpecially his fending the young nobles to vifit foreign countries, and his orrn avowed intention of making the tour of Europe, contributed to raife againft him a formidable party. The vigilance and prudence of the tzar, however, extricated him from the dangers with which he was threatened, and enabled him to carry into execution his propofed journey. See Peter I.
Ans syoo. On his return to his own dominions, Peter pafied was. The tzar had determined, in conjunction with Augufus and the king of Denmark, to take adrantage of the youth and inexperience of Charles XII, who had juft fucceeded to the Swedilb throne; and in this interview with Augultus, he made the final arrangenuents for the part which each was to take in the war. Auguftus was to receive Livonia as his patt of the fpoil, while Freserick king of Denmark had his eye on Holftein, and Peter had formed defigns on Ingria, formerly
ro7
Is defeated by the Ewedes.
a province of the Ruflian empire.
In the mi idfe of the year 1700 , Charlcs had left his e pital, to oppufe thefe united enemies. He foon compelled the king of Denmark to give up his defigns on Hoiftein, and fign a treaty of peace ; and being thas at liberty to turn his arms againt the cther members of the confederacy, he tefolved firt in lead his army againt the king of Pol.nd; but on his way he received inetelligence that the tzar l. .d laid fiege to Narva with 'roo,000 men. On this he immedtriely embarked at Carlfcrona, though it was ther the depth of winter, and the Batic was fearcely naviga $a^{7} \mathrm{e}$ : and fiom land at Permer in Livenia with fart of his forces, havi $g$ ordered the reft to Reval. His armv dit not exceed 23, 000 men, br! it was compofed of the bef. fotdiers in

Vorn XVIII. Part I.

Europe, while that of the Ruffians was litule better than an undifciplined multitude. Every polfible obfruction, however, had been thrown in the way of the Sivedes. Thirty thoufand Ruffians were polted in a defile on the road, and this corps was futtained by another body of $23,: 00$ drawn up fome leagues ncarer Narva. Peter himfelf had fet out to haften the march of a reinforcement of 40,000 men, with whom he intended to attack the Swedes in flank and rear ; but thic celeritv and valour of Charles baffled every attempt to oppote him. He fet out with 4000 foot, and an equal nura ber of cavalry, leaving the reft of the army to follow at their leifure. With this fmall body he attacked and defeated the Ruffian armies fuccefiively, and puffed hi way to Peter's camp, for the attack of which he gavimmediate orders. This camp was fortified by lines of circumvallation and contravallation, by redoubts, by : line of 150 brafs cannons placed in front, and defended by an army of 80,000 men ; yet fo violent was the attack of the Swedes, that in three hours the entrencl. ments were carried, and Charles, with only 4050 mel. that compofed the wing which he commanded, purfued thee flying enemy, amounting to 50,000 , to the river Narva. Here the bridge broke down with the weight of the fugitives, and the river was flled with their bodies. Great numbers returned in defpair to their camp: where they defended themfelves for a fhort time, but were at laft oblized to furrender. In this battle 3 ,,00: were killed in the intrencluments and the purfuit, or drowned in the river; 20,000 furrendered at difcretion, and were difmified unarmed, while the reft were totally difperfed. A humdred and fifty pieces of camnon, 28 mortars, 15 I pairs of colours, 20 flandards, and all the Ruflian baggage, fell in:o the hands of the Swedes; and the duke de Croy, the prince of Georgia, and feven other generals were made prifoncrs. Charles behaved witb the greateft gererofity to the conquered. Being informed that the tradefnen of Narva had refufed credit to the officers whom he detained prifoners, he fent 1000 dacats to the duke of Croy, and to every other office: a propartionable fum.

Peter was advancing with 40,000 men to furround the Swedes, when he received intelligence of the dreadful defeat at Narva. He was greally chagrined; but comforting himfelf with the hopes that the S:wedes would in time teacls the Ruffians to beat them, he returned to his own dominions, where he applied himfelf with the utmof diligence to the raifing of another army. He evacuated all the provinces which he had invaded, and for a time abandoned all his great projeats, thus leaving Charles at liberty to profecute the war againft Poland.

As Augulus had expected an attack, he endeavoured to drav the tzar into a clofe alliance with lim. The two morarchs had an interview at Birfen, where it war agreen that Augunus fhould lend the 'zar 50,000 German foldie's, to tre paid liy Ruttia; that the tzar fhould fend an erual number of his troops to be trained up to the art of war in Polard; and that he Mould pay the king $3.002,000$ of rixtollar's in the fpace of two years. Or this treaty Charles had notice, and, by means of his minifer Count Piper, entirely fruftrated the fcherne.

Afier the battle of Narva, Chartes became conf.dent Recened and negligent, whi'e the atlivity of Peter increafed nith exert ou or his leffes. He furplied his want of axtillery ty mehting Pter.

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民: Sia.
A.wn the 1 : $\%$ of the ciurches, and confructed numerous fmall ventels on tie lake of Ladoga, to oppofe the entrance uf the Siredes into his dominions. He took every advantage of C'arles's negligence, and engeged in fiequent flirmithes, in which, thouth ofion beaten, he tias fometimes vil?orious. Thus, he proved to his Williers, that the Si:icles though conquerors, were not invinciole, and kept up the fpirit of his troops by libeTatily fewadint every indarce of comage and fucce fs. ILe contrived to make himlelf mafter of the river Neva, and cantured Nyonftantz, a fortrefs at the mouth of that river. Here he laid the foundation of that city which he had long projueted, and whinh was to become the future metropolis of his empise. At length in 1774 he became matter of Ingria, and appointed his favourite Prince Menzikoff to be vicuroy of that province, with ftriet orders to make the buiding of the new city his principal concern. Fiere alre..dy buildings were rifing in every quarter, and navigation and commerce were increafing in vigour and extent.
In the mean time Auguftus king of Poland, though treating with Charles for the furrender of his dominions, was obliged to keep up the appear. nce of war, which he had neither ability no r inclination to conduct. He had been lately joined ty Prince Menzikoff with $\hat{\rho} 2,000$ PuTans; and this o'jliged him, contraxy to hi inclination, to hazard an engagement with Mcyerfeldt, who commanded 10,000 men, one half of whom were Siredes. As at this time no difparity of numbers whatever was reckoned an equivalent to the valour of the Siwedes, Meyerfeld did not decline the eombat, though the amy of the encmy was four times as numerous as his own. With his countrymen he defeated the enemy's frit line, and was on the pont of defeating the focond, when Staniflauc, with the Piles and Lithuaniars, gave way. Meyenfelet then perceived that the hatle was loit; but he tought defperately, that he migit avoid the difgrace of a cefeat. At laft, however, he was opprefied by numbers, and forced to furrender; fufferitg the Swedes for the firft tinie to te conquered by their enemiec. The whole army were taken prifoners excepting MI. jor-genera! Kr. © ar, who having re; eat dly rallied a tady of hore formed into a bri ade, at lail broke though the enemy, and eicaped to Pofiania. Augufus hod farcoly fung $\overline{i c}$ Dium for this vitory, when his pleni;ctentiaz returned from Saxony with the articles of the treaty, by which he was to renounce all claim to the crown of Poland in favour of his rival Staniflous. The king befitated and ferupled, but at laft fiznied them; after which he fet out for Saxony, yled at any rite to be ficed from fuch on enemy as the king of Siveden, and from $f$ ch allies as the RuThans.

The $i z$. P Peter was no fonscr informed of this extraordinary treaty, and the cruel execution of his pleniputenikiy Paikul, * than he fent letiers to eviry cuurt in Cl-rinctdom, complaining of this grols violation of this law of nations. He enlreated the emperor, the guren of Britain, and the Staits General, to revenge then it: ult on bumanity. IIe fliges atized the comeliance of Augufus with the opprobii, us name of pufillanimity; exhorted them not to guaraisee a treaty fo unjuit, but to defpife the menaces of the Swedifh bully. So well, however, was the prowefs of the king of Sweden known, that none of the allies thought proper to irritate him, by refufing to guarantee any treaty be
thought pipper. At fiff, Peter thourht of revenging Pathul's death by mallacving the Swedith priloners at Mofco; but-from this he was deterred, by remembering that Charles lad many more Ruffina prifoners than he himifelf had of Swedes. Giving over all thoughts of revenging limfelf in this way, theretore, in the year 1707 he cntered Puland at the head of 60,000 men. Ad-Petirentass rancing to Leopold, he made himlelf mailer of that Poiand. ciiy, where he aliembled a diet and folemanly depoled Stanillaus with the fame ceremonies which had been ufed with regard to Auguflus. The country was now reduced to the moft milerable fituation; one party, through fear, adhered to the Swedes; another was gained over, or forced by Peter to take part with him ; a violent civil war took place between the $t w o$, and great numhers of people were butchered; while cities, lowns, and villages, were laid in ahes by the frantic multiude. The appearance of a Swedifh army under King Stariflaus and General Lewenhaupt, put a fop to thefe diforders, Peter hinafelf not caring to tland Lefore fuch enemies. He retired, therefore, into Lithuania, giving out as the caufe of his retreat, that the country could not fupply him with provifion and forage neceflary for fo great an army.

During thefe trinfor Chat 113 refidence in Saxony, where he gave laws to the court of vifits Au. Vicnma, and in a mamer intimidated all Europe. At guftus Inft, fatiates with the glory of having dethroned one king, fet up another, and truck all Europe with terror and admiration, he began to evacuate Saxony in purfuit of his great plan, the dethroning the tzar Peter, and conqueling the valt empire of Ruilia. While the army was on full march in the neighbourhoud of Drefden, he took the cxiraordinary refolution of vifiting King Auguf. tus with no more than five attendants. Though he hat no reafon to imagine that Auguftus either did or could entertain any fricndfhip for him, he was not unealy at the confequences of thus putting himfelf entirely in his power. He get to the palace door of Al:guftus before ii was known that he had entered the city. General Fleming having feen him at a dilance, had only time to run and inform his mather. What might be done in the prefent cafe immediately occuried to the minifter, but Charles entered the elector's chamber in his boots befure the latter had tine to recover from his furprife. IIe breakfafted with him in a friendly manner, and then exprefied a defire of viersing the fortifications. While be was walking round them, a Livonian, who had formerly been condemned in Sweden, and ferved in the tronps of Saxony, thought he could never have a more favourable opportunity of obtaining pardon. He therefore beysed of King Auguftus to iniercede for him, being fully aflured that his majelly conld not refufe fo flight a requeft to a prince in whofe power lie then was. Augulius accordingly made the requelt, but Charles refuled it in fuch a manner, that he did not think proper to afs it a fecond time. Having paffed fome hours in this extraordinary vifit, he returned to his army, after having embraced and taken leave of tise king he liad dethroned.

The armies of Sweden, in Saxony, Poland, and Fine and ${ }^{12}$ land, now exceeded 70,000 men; a force more than marches fufficient to have conquered all the fower of Ruffia, had as ain it the they met on equal terms. Peter, who had his army difperfed in frall parties, inftantly afiembled it on receiving

## R U S

coiving nutice of the king of Sweden＇s march，was making all poflible preparations for a vigorous refill－ ance，and was on the point of attacking Staniflats， when the approach of Clrarles fruck his whole army with terror．Iis the month of January 1，08 Charles puffid the N．emen，and entered the fouth gate of Grodno jurt as Petcr was quitting the place by the north gate． Ci．arles at this time had advanced fome diftance beiore the army，at the head of $60=$ horfe．
The tzar having intelligence of his fitualion，fent back a detachment of 2000 men to attack bim，Lut thefe rere entirely defeated；and thus Charles incoume paffefed of the whole province of Lihunia．The bing purfued his flying enemies in the midt of ice and frow， over mountains，rivers，and moraftes，nd throus $h_{2}$ ob－ flacles，which to furmount feemed inpenithe ：o hame mon power．Thefe dificulties，bowever，he had fore－ feen，and had prepared to meet them．As he knew that the country could not furnith provithe as fuflicient for the fabiatence of his army，he had providud a darpe quantity of bifctis，and on this lis troop，the fly fub－ fitted，till they came to the banks of tie Beraine，in view of Buriflow．Here the tzar was futied，atid Charles intended to give him batule，af or mlich he could the more eafily pene：rate into tha wha．Peer， however，did not think proper to come to an adis．？，hat retreated towards the Doiepr，whither he was joritud by Charles，as foon as he had refrethed tis arnys．The flufians had defroyed the roads，and defil we the cuuntry，yct the Swedifh army advanced with great celcrity，and in their match defeated 20,000 Rumins， though entrenched to the very teeth．This victory， confidering the circumflances in thich it was grivet， was one of the moft glorious that ever Clarles li．t a：－ chieved．The memory of it is preferred by a miedal ftruck in Sweden with this infeription；Siylues，privader， agseres，hojles，vicii．

## Peter at－

 tempis to make peare but is un－ Euccef：© il．When the Rutions had re－paffed the Dniepr，the tzar，finding himfelf purfued by an enemy will shom he could not cope，refolved to make piopofsls in an accommodation；but Charles andwered his propofals with this arrogant reply；＂I will trent with the tzat at MI：ico ；＂a reply which was received by Peter with the coolnefs of a hero．＂My brother Charies，faid he，at－ fects to play the Alexander，but he fll 11 not find in me a Darius．＂He ttill，however，contimued his retrent， and Charles purfued fo clofely，that daily firmifies took place between his advanced grard and the reas of the Ruffians．In thefe actionis the Sivedes हुencrally hind the advantage，though their petty rictories coll them dea：，by contributing to weaken their force in a ciun－ try where it could not be recruited．The two armies came fo clofe to each other at Smolenik，that an en－ gagement took place between a body of Fufti． 115 ccm － poled of 10,000 cavalry and 6500 Kalmuks，and the S：wedifi vanguard，compofed of onls fix reaiments，but commanded by the king in perfon．Here the Ruffians were again defeated，but Charles hiving Leen feparated from the main boty of his detaclment，whas ex，rofed to great danger．With cne regiment only，he fought with fuch fury as to drive the eacmy before him，whicn ilicy
An． $17=8$ ．thought themfelves fare of making him prifoner．
${ }^{11} 7$
CharlesaA－By the 3d of OCtoker Iクフ8，Clarlea liad zppmacls－
vances to－ wards Mofeo． ed within too leagues of TIofor；but Peler liad reaner． ed the roads jmyzflable，and had deproyed the villages
on esery fide，to as tu cut off every poffibility of fubfik． ence to the enemy．The feafon was far abvanced，and the feverity of winter was approaching，fo that the Swedes were threatened with all the wiferies of cold and famine，at the fane time that they were expofed to the atlacks of an enemy gre tiy fupcrior in number，who， from their knowledye of the country，had almolt con－ flant opportuntics of harafing and attacking them by firprife．For thefe reatons the hing relaived to pafs the Ukvaine，where MIz－ppa，a Pohhi gentieman，＂as general and chief of the nation．Anzeppa having been affronted by the izar，readily entered into a treaty with Charles，whom he promild to allite with 30,000 men， great quantitics of provifons and ammuntion，and with all his trealures，which were imuenfe．The Sivedih army advanced towads the river Diffa，whic they lart
 leages in exteri，filled wi．h resis，En ithluin，in． marthes．Io en n，fiee their milfomaes，they tee led 3 o leagues ont of the right wiof；all the at alley w．s lunk in boss a 1 dnanfor the pruvition of the s．f． diers，which confitted of chetit，wi．s c．mant．e？：and the whule army fiem and em：i．：？＇l．an bey atiod
 pa with his reint menert ；！．．．t infleed of that，they
 a hotile ain ，and the jus re itfelf almon impracti－ cable．Chence，loweier，was fill und unted；he 1－t his folliers by 1 pus dowa the feop tanks；they crof． fec the rive citler by fwimang，or on 1afts bathily put together ；anse the Rutiuns fiom 1teir fal，shd． continaed ti ir mach．NI．ase pa foon aies appered， having with him about $\delta 00$ orn n，the＇hiten remains． of the army he had promifed．Th．R．A：，，had got in－ telligence of his deligne，dcfea＇c 1 －id chepured＇i ad－

 If ped to be w．fal Is I：s intcitizence in an unknown cumatiy；and the Mi 汉 isc，eat of reve：ge，coowded daily to the cim？with prosianme．

Greater misformens fill assaied $\mathrm{t}^{1} \mathrm{c}$ Swedes．Whea Cliarles entered the Ularaine，he h d font erders to Ge－ neral Luwc：haapt to motct him with $1 j 2020 \mathrm{mon}, 6000$ c．whom rere Sive es，and a ligge cunvoy of provi－ foris．Agsinft this detarlamert Peter noix terf his whoie force，and ma：ched again．t him with an army of 65,000 mean．Lewerhau ！had reccived in $k$ ligence that the R．finan army confited of only $2+1,00$ ，a furce to which he thounglit 6000 Swedes fujerior，ahd there－ fore difdained＇to entrench himizif．A furious comeit enfued，in which the Rotians weat defeated nith the lofs of 35,000 men．New，howen i，allairs began to take another turn．The Swedes，elited with vizoz̈， profecuted their maren into the i tevior；but from the ignorance or treachery of their glid．，vere led into a marfly country，whese the ronds n re made impaffable by felled trees and deep ditches．Here they were at－ tacked by the tzar with his whole army．Lewenhaupt had fent a ditaciment to difpute the paffage of a body of Renfians over a morafs；but finding his detachment likely to be overponered，he murched to fupport them with all his infantry．An ther defpetate batile erfoucd； the Fuffinns were once more thrown into diforder，and were juft on the point of being totally defeated，when Peter gave＇oacters to the Kozaks＇and Kalwuks to firc

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Ruffa upon all that fied; "Even kill me, faid he, if I chould be fo cowardly as to turn my back," The battle was now renewed with great sigour; but notwithtanding the tzarls pofitive orders, and his own example, the day would have been loft, had not General Bauer arrived with a ftrong reinforcement of freih Ruflian troops. The engagement was once more renewed, and continued without intermiffion till night. The Swedes then tpok poffeffion of an advantageous poft, but were next morning attacked by the Rullians. Lewenhaupt had formed' a fort of rampart with his waggons, but was obliged to fet fire to them to prevent their falling into the hands of the Rufians, while he retreated uader cover of the fraske. The tzar's troops, however, arrived in time to fave 500 of thefe waggens, filled with provifions deftined for the diltrefficd swedes. A ftrong de, tachment was fent to purfue Lewenhaupt; but fo terrible did he now appear, that the Ruffian general offered him an honourable capitulation. This was rejected with difdain, and a freth engagement took place, in which the Swedes, now reduced to 4000 , again defeated their enemies, and killed 5000 on the ipot. After this, Lewenhaupt was aliowed to purfue his reireat without molettation, though deprived of all his cannon and provifions. Prince Nenzikoff was indeed detached with a body of forces to harals him on his march; but the Swedes were now fo formidable, even in their diffrefs, that Menzikoff dared not attack them, fo that Lewenhaupt with his 4000 men arrived fafe in the camp of Charles, afier having deftroyed nearly 30,000 of the Ruffrans.

This may be faid to have been the laft fuccefsful effort of Swedifh valour againt the troops of Peter. The difficulties which Charles's army had now to undergo, exceeded what human nature could fupport; yet ftill they hoped by contlancy and courage to fubdue them. Ia the fevereft winter known for a long time, even in Rufira, they made long marches, clothed like favages in the fkins of wild bealts. All the draught horfes perifhed ; thoufands of foldiers dropt down dead through cold and hunger ; and $\mathrm{by}_{\mathrm{y}}$ the month of February ${ }^{17} 9 \mathrm{c} 9$, the whole army was reduced to 18,000 . Amidft numberlefs dificultics thefe penetrated to Pultava, a town on the eaflern frontier of the Ukraine, where the tzar had laid up magazines, and of thele Charles refolved to obtain pofiefion. Mazeppa advifed the king to inveit the place, in confequence of his having correfpondence with fome of the inhabitants, by whofe means he hoped it would be furrendered. However, he was deceived; the befieged made an obftinate defence, the Swedes were repulfed in every affault, and 8000 of them, were defeated, and almolt entirely cut off, in an engagement with a party of Ruffians. To complete bis misfortunes, Charles received a fhot in his heel from a carabine, which flatiered the bone. For fix hours afier, be contimued caluly on horfeback, giving orders, till he fainted with the lofs of blood; after which he was carried into his tent.
by enemies, is laid to have, for the firlt time, afiembled a grand council of war, the refult of which was, that it became expedient to march out and attack the Puffians. Voltaire, however, totally denies eliat the king relaxed one jot of his wonted obftinacy and arbitrary temper; but that, on the 7 th of July, he fent for General Renfchild, and told him, without any emotion, to prepare for attacking the enemy next morning.

The 8th of July 1709 is remarkable for the battle which decided the fate of Sweden. Charles having left 8000 men in the camp to defend the works and repel the fallies of the befieged, began to march againft his enemies by break of day with the reft of the army, confifting of 26,000 men, of whom 18,000 were Koz ks se The Ruffians were drawn up in two lines behind their entrenchments, the horle in front, and the foot in the rear, with chafms to fuffer the horfe to fall back in cafe of necuflity. General Slippenbach was difpatched to attack the cavalry, which he did with fuch impetuofity that they were broken in an inftant. They, how: ever, rallied behind the infantry, and returned to the charge with fo much vigour, that the Swedes were difordered in their turn, and Slippeubach made prifoner. Charles was now carried in his litter to the fcene of confulion. His troops, re-animated by the prefence of their leader, retumed to the charge, and the battle became doubtful, when a blunder of General Creuk, who had been difpatched by Charles to take the Ruffians in flank, and a fuccefsful manceuvre of Prince Menzikoff, decid ed the fortune of the day in favour of the Rulfians. Creuk's detatchment was defeated, and Menzikoff, who had been fent by Peter with a ftrong body to polt himfelf between the Swedes and Pultava, fo as to cut off the communication of the enemy with their camp, and fall upon their rear, executed his orders fo much fuccefs, as to cut off a corps de referve of 3000 men. Charles had ranged his remaining troops in two lines, with the infantry in the centre, and the horfe on the two wings. They bad already twice rallied, and were now again attacked on all fides with the utmoft fury. Charles in his litter, with a drawn fword in one hand, and a piftol in the other, feemed to be everywhere prefent; but new misfortunes awaited him. A cannon ball killed both horfes in the litter; and fcarcely were thefe replaced by a freth pair, when a fecond ball broke the litter in pieces, and overturned the king. The Swedifh foldiers believing him killed, fell back in confternation. The firft line was completcly broken, and the fecond fled. Charles, though difabled, did every thing in his power to reftore order ; but the Ruffians, emboldened by fuccefs, preffed fo hard on the flying foe, that it was impulfiole to rally them. Renichild and Ceveral other generai officers were taken prifoners, and Charles himfelf would have fbared the fame fate, had not Count Poniatofski (father of the future favourite of Catbarine II.) with 500 horle, furrounded the royal perfon, and with defperate fury cut his way through ten regiments of the Kufians. With his fmall guard the king arrived on the banks of the Uniepr, and was followed by Lewenhaupt with 4000 foot, and all' the remaining cavalry. The Puflians took poffcfion of the Swedills camp, where they found a prodigious fom in Ppecie; while Prince Menzikoff puifued the flying Swedes; and as they were in went of Louts to crots the Dniepr, cilleed them

For fome days the tzar, with an army of 7,0,000 men, had lain at a fmall diftance, haraffirg the Sucdith camp, al.d cutting off the convoys of provifion; but now intellifpe ce was received, that he was advancing as if with a de gn of attacking the lines. In this fituation, Cliarles, wounded, diftrefed, and almat fiysounded


Rufian: to fiurrender at dicicetion, Charles efcaped with the utmoit difficulty, but at length reached O:chakof on the frontiers of Turkey, See Sireden.

By this decifive vitory, Peter remained in quiet poffeffion of his, new acquifitions on the Baltic, and was enabled to carry on, without moleflation, the improvements, which he had projected at the mouth of the Neva. His haughty rival, fo long and fo juilly dreaded, was now completely humbled, and his ally the king of Puland was again effablifhed on his throne. During the eight years that had elapfed from the battle of Narva to that of Pultava, the Ruflian troops had acquired the difcipline and fteadinefs of veterans, and had at lengit learned to beat their former conquerors. If Peter had decreed triumphal proceffions for his trifing fucceffes at Azof, it is not furprifing that he fhould commemorate a victory fo glorious and fo important as that of Pultava by fimilar pageants. He made his triumphal entry into Mofco for the third time, and the public rejoicings on this occafion far exceeded all that had before been witneffed in the Ruffian empire.

An. ${ }^{2} 7^{1 I}$.
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Dangerous
firuation of Peter at the
Pruth.

The varsquifhed Charles had, in the mean time, found a valuable friend in the monarch in whofe territories he had taken refuge. Achnet II who then filled the Ottoman throne, bad beheld with admiration the warlike atchievements of the Swedifh hero, and, alarmed at the late fucceffes of his sival, determined to afford Charles the moft effectual aid. In 1711, the Turkilh emperor affembled an immenfe army, and was preparing to invade the Ruflian territories, when the tzar, having intimation of his defign, and expecting powerful fupport from Cantemir, holpodar of Moldavia, a vaffal of the Porte, refolved to anticipate the Turks, and to make an inroad into Moldavia. Forgetting his ufual prudence and circumpection, Peter croffed the Dinepr, and advanced by rapid marches as far as Yaffy or Jaffy, the capital of that province, fituated on the river Pruth; but his temerity had nearly colt him his liberty, if not his life. The particulars of his dangerous fituation, with the manner in which he was extricated from it, by the prudent counfel of his confort Catharine, and the advantageous treaty of the Pruth, which was the refult of that counfel, have been already related under Catherine I.
An. 1721. By this treaty, in which the interefts of Charles had
Adran- been almoft abanduned, Peter faw himfelf delivered from tageous
peace with
Swed=n.
exporting duty free, from Riga, Reval, and Arerfore, Rufia. corn to the annual amount of $50 ; 000$ zubles. In conte: quence of this great aecelfion to the Ruffan erapire, Peter received from hirs fentate the title of emperor and autocrator of all the Ruffias, and the ancient bitle of tzar fell into difufe.

The improvements introduced by Peter into the in 4 Peter's raternal policy of the empire, muft be acknowledged totional imhave been numerous and importan!. He organized a. provementa, new the legillaive affembly of the tate; he greatly ameliorated the adminiltration of jutice; he new-modelled the national army ; entirely erected the Rulian: navy; rendered the ecclefiaftical government milderand lefs intolerant; zealoufly patronifed the acts and fciences; erected an obfervatory at St Peterfourg, and by publicly proclaiming the approach of an eclipie, and the precife time at which it was to take place, taught his fubjects no longer to confider fuch a phenomenon as an omen of difalter, or an awful menace of divine judge. ment. He enlarged the commerce of his empire, and gave every encouragement to trade and manufacturcs. He formed canals, repained the roads, initituted regular pofts, and laid down regulations for a uniformity of weights and meafures. Laitly, he in fome meafure civilized his fubjects, though it is evident that he could not civilize himfelf.

It is the province of the hiftorian to delineate the ${ }_{\text {Character }}^{122}$ characters of the princes whofe tranfactions he relates.of Peter. Various have been the characters given of Peter the Great, by thofe who have detailed the events of his reign. It is certain that to him the Ruffian empire is indebted for much of that fplendour with which the now thines among the powers of Europe. As a monarch, therefore, he is entitled to our admiration, but as a private individual we mult confrder him as an object of deteftation and abhorrence. His tyranny and his cruelty admit of no excufe ; and if we were to-fuppofe that in facrificing the heir of his crown he emulated the patriotifm of the elder Brutus, we mult remember that the fame hand which figned the death warrant of his fon, could, with pleafure, execute the fentence of the latw, or rather of his own caprice, and, in the moments of diffipation and revelry, could make the axe of juftice an infrument of diabolical vengeance, and of cool brutality.

Peter was fucceeded by lis confort Catharine, in An. 1725 whofe favour he had, fome years before his death, altered the order of furcceffion. As the character of this ${ }_{\text {Raign }}$ Cof princef, and the tranfactions of her fhort reign, have been full'y detaifed under her life *, we fhall here only * See Cinotice in the moft curfory manner the events that took therine I. place.

From the commencement of her reign, Catharine conducted herfelf with the greateft benignity and gentleneds, and thus fecured the love and veneration of her fub. jects, which fhe had acquired during the life of the emperor. She reduced the annual capitation tax ; vrdered the numerous gibbets tshich Peter had erected in various parts of the country'to "be cut down, and had the bodies of thofe who had fallen vielims to his tyranny decently inierred. She recalled the greater part of thofe whom Petcr bad exiled to Siberia; paid the troops their arrears; rellored to the Kozaks thofe priviegec and inmunities of which they $h \mathrm{~d}$ teen deprived during the late reis $n$; and fie continued in office mat of The fervints of Peter, b'tith civil and military. Sie cortloded

## F U S

10. 1727

Reignt
of Pcter II.
a treaty with the German emperor, by which it was ftipulated that in cafe of attack from an encmy, either party flould aftit the cther with a force of 30,000 men, and thould each guarantee the poffeffions of the other. In her reign the boundaries of the empire were extended by the fubmilion of a Georgian prince, and the volentary homage of the Kubinkian Tartars. She died on the $17^{\text {th }}$ of May 1727 , having reignced about two vears: She fad fettled the crown on Peter the fon of the tzurowitch Alcxel, who fuccecded by the tile of Peter II.
Peter was onity 12 years of age when he fucceeded to the imperial throne, and his reign was fhort and uninterefting. He was guided chiefly by Prince Menzikof, whole datghiter Catha ine had decreed him to marry. Thi ambitinus man rho, from the mean condition of a pye bor, had rifen to the firt offices of the flate, and Faci, during the tate rei,n, principally conduEted the alminitration of the govornment, was now, however, diaving tona:?s the end of his career. The number of his enemies hat greatly increafed, and their attempts to work his downfall now fuccecied. A young nobleman of the family of the Dolgorulis, who was one of l'eter's chief companions, was evcited by his relations, and the other enenies of Me:zikof, to inftil into the mind of the young prince, fentiments hoftile to that minilier. In this commition he fucceeded fo well, that Menzikoti and lis whole family, not excepting the young emprefs, were banifhed to Siberia, and the Dulgorukis took into their bands the management of affairs. Thefe artful counfllors, inftead of cultivating the nevally good abilities of Peter, encouraged him to watc his time and exhault his frength in hanting, and cher a:hletic cxelcifes, for which his tender years wer, iy no means caitcylated. It is fuppoid that the cibility confequent on fuch fatigue increafed the natural dayger of the :mallpox, with which he was atta ked in January 1732, and from which he never reccured.
An. 1730.
Notwithfanding the ablolute power with wh Peicr 1. and the emprefs Catharine had fetcled by will the fucceffion to the throne, the Ruflian fenate and nobility, upon the dcath of Pcte: II. ventured to fet afide the order of fuccoffion which thofe fovereigns had eftablihed. The male iflue of Peter was no:r exlinet; and the duke of Holitein, fon to Peter's eldeft daughter, was by the deftination of the late emprefs entitled to the crosw; but the Ruflians, for politioal realone, filed the throne with Anne duchefs of Cuurland, fecond daughter to Ivan, Peter's eldeft brother; though her eldeft fiftor the duchefs of Mecklenburg was alive. Her reign was extremely profperous; and thrugh the accepted the crown under limitations that fome thought derogatory to her dignity, yct thr broke them all, afirted the presogative of her anceffors, and punilhed the afpiring Dolgoruki family, who had impofed upon her limitations, with a view, as it is faid, that they themfelves might govern. Sine raifed her favourite Biren to the duchy of Courl and; and ras obliged to give way to many fevere exccutio s on his account. Few tranfactions of any impertance trik place during the reign of Anne. She follow d th example of her great predecefior Peter, by interferi: in the affairs of Poland, where the had fuffcient interdet to eft blifh on the throne Auguftus III. This interfe ence had weatly juvelved lier in a war with France, and fhe hid ...:A! fol: confiderabic army to
the banks of the RGine, for the purpofe of aching \& gainft that power, when the conciufson of a treaty of peace rendered then unoceffary. Sife entered into a treaty with the fhah of Perfia, by which the agreed to give up all title to the territories that bad ecen teized by Pcter I. on the ftores of the Cafpia, in confideration of certain privileges to be granted to the ilulfian merchants.

In $\mathbf{3} 735$, a rupture tock place betweer Ruffia and Turkey, occalioned partly by the mutual jealuufies that had fublited between theie powers, ever fince the treaty on the Pruth, a:1d partly ty the devredations of the Fortars of the Crimea, then under the cominion of the Porte. A Ruffian army entered the Crimea, ravaged part of the country, and killed a confiderable number of Tartars; but li..ving ventured too far, without a fus. fivent fupply of provitions, was cbliged to retreat, after fuft.iniag a lufs of nearly 10,000 men. This i!l laccels did not difcourage the court of St Peterfburgh; and in the following year another armament was fent into the Ukraine, under the command of Marfhal Munich, while another army under Lafcy proceeded againgt Azof. Both thefe generals met with confiderable fuccefs; the Tartars were defeated, and the fort of Azof once more fubmitted to the Ruffizn arms. A third campaign took place in ${ }^{1} 737$, and the Ruftians were now affited by a body of Auttrian troops. Munich luid ficge to Oiclaakof which foon furrendered, while Lafcy defolated the Crimea.

No material adrantages were, however, gained on either fíte; and difiputes arofe between the Auftrian and Ruffing generals. At lençth in 1739, Marflal Munich having crofled the Bog at the head of a confiderable arms, defcated the 'Tuiks in a pitched battle near Stavuthon, made himfelf mafter of Yafy, the capital of Moldavie, and before the end of the campaign reduced the whole of that province under his fubjection. Thefe faceflies of the Ruflian arms induced the Porte to propofe terms of accommodition ; and in the latter end of 1739 , a trea!y was concluded, by which Ruflia again gave up Azo and Moidavia, and to compenfate the lofs of above 100,000 mien, and vait fums of money, gained nothing but permiffion to build a fortrefs on the Don.

Upon the death of Anne, which took place in 1740 , Ivan, the fon of her niece the princefs of Mecklenbuyg was, by her will, cntitled to the flicceffion; but being no mure than two vears old, Bion was appointed to be adminiftrator of the empire during his minority. This nomination was difegreeable to the princefs of Mecklenburg and her hufband, and unpopular among the Rulfians. Count MIunich was employed by the princefs of Mecklenburg to arreft Biren, who was tried, and condemned to die, but was fent into exile to Siberia.

The adminiftration of the princefs Anne of Mecklenburg and her hufband was upon many accounts difagreeable, not only to the Ruffians, but to other powers of Eurape; and notwithtanding a profperous war they cartied on with the Swedes, the princefs Elizabeth, daughter by Catharine to Peter the Great, formed fuch a party that in one night's time the was declared and proclaimed emprefs of the Rufias; and the princefs of Mecklenbug, her hafband, and fon, were made prifomers. The fate of this unhappy family was peculiutly fevere. $1!!$ bet Ifan wera font into banihment, to an

## $R$ U S [ $3931 \quad$ R U S

Rnolia: ifland at the mouth of the Dvina, in the White Ea, whise the princefs Anne died in clilld-bed in 1747. Iva:s's father furvived till 1775, and at hat ended his miferable carser in prifon. The young emperor Ivan was for fome tome fhut up is a monaltry at O:anienbury, when, on at'empting to efcape, he was removed to the calle of Schlulletbug, where he :was, as will hercafter be related, craelly pil thedcath.

An. 1741 .
127
Accefion 0
kizabeth.
The chiof intrument ia rcufing the ambition of Elizaboth, and procuring her elevation to the throne, was her phylician and favourite Lefloc, who, partly by his infinuating aditefs, and partly by the alfitance of the French ambaifador, brought ever to Elizabeth's interelt moth of the royal guards. By their atiflance the made herielf miftrels of the imperial palace, and of the perfens of the young emperor and his family, and in a few hours was eitabliked without oppoition on the throne of her father.

Daring the fhort regency of Anne of Meckienburg, a new swar had commenced between Rutiz and Sweden; and this war was carried on with confiderable acrimony and fome faccefi, by Elizabeth. The Ruffiun forces tok pollegion of Abo , and made themfelves matlers of nearly all Firiland. But at length in 1743 , in confequence of the negociations that were carrying on relative to the fuccelfion of the Swedith crown, a peace was concluded between the tiw powers, on the condition that Elizabeth fhould reitore the greater part of Finlund.
An. 1742. Sooz after her accefion, Elizabeth determinced to

128
Feter duke
cf Holfte:n Gotrorp
made gra:
duke of
Ru〕ia.

- See Ca
serine II. 129 E:iz beth engages i: the feven years war nominate ker ficceffor to the imp-rial threne, and had fixed har eyes on Chaties Pcter Ulric, fon of the duke of Holitein Goutorp, by Anne, dathhter of Pe'er the Great. This prince was accordingly invited in:o Ruffia, perfuate 1 to become a member of the Greek church, and proclaimed grand duke of Ruffin, and heir of the empire. The cerenony of lis baptifm was performed on the 18 hh November, $17+2$, and he teccived the name oi Pcicr Feodurovitch. He was at this time only fourteen years of age; but before he had attained his fixteenth year, his aunt had de..ined him a contort in the petfon of S plia Auguta Feccerica, daughter of Chri-
 is unne- cifary for us here to relate the circumfances thit led 10 this marriage, and the undappy co: ${ }^{r}$ quances that refulted from it during the life of E'izioch, as they have alreaci'y been fulficiently det iled *.
Ezvings thus fattled the order of fucceifon, Elizabeth beg $n$ to take an active rart in the politics of Europe. The dea h of Chatles VI. erne, cror of Geimany had lift his daugl: r, Maria Therefis queen of Fiuns aty, at the marcy of the enterprifing king of Pruflia, till a formidable party, mere from jeaiow of thot m march's military $f$ me than reand to the in weffs of an injured princefs, was formed in her behrif, Ta this confederacy the emores of Ru: Tin ascerlel, and in 1747 fent a confiderabte body of troops into Germony, to the affillance of the emprefs queen. The events of this long ant bloody conteft have been fully detailed ui. der the article Pre'ssta, from N* 18 to 6 t, and they comprife the grenter part of thofe tranfactions in the reign of Elizabeth that do not particularly regard the internal policy of the emsire. The more private tranfactions of the court of St Peterfbarg, as far as they are connected with the intrigues of ber niece Catharine and the follies
of the grand duke Peter, have alfo been relaied in our life of Cathirnas 11 . Elizabeth died on the sth Janualy ${ }^{1762}$, the vistim of difeafe brought on ty intem. perance. With her character as a private woman ue have lille bufinefs here. Hor mesits as a fovereign vi il appeat from the following femmary dana ty Mr Tooke.

Eliz: beth, as cmprefs, sovemed but little of herfelf; Character it Levisy properly lier misiters and lavotrites who dic- of Elizatated her re, ulations and ciecrees. Ot this number, be- ${ }^{-1}$ th. fices Panucuf, was allo Bazumofshy, to whom, it been laid, the etrpre's was even privately married. At the beginning of her reign, it is true, the wont a ferv times to the fitting of the fenate ; but the matters tranfacted thare were by much too ferious for her mind; and, accordingiy, flie very foon left off that practice altugetber, contenting iserielf by confirming with her fignature the e refolutions of that affembly, and the determinaisons of her minifler, or the conforence, which lup. plied the place of the council.

Her character in general was mild, as was evident from the tears it ceit her whenever the received accounts from Pruffia even of victorics gained by her own army, on account of the human Liood by which they mut neceffaly have teen purchated. I't even this delicate fenfibility cid not reitrin her from profecuting the war i:to whicha fle had citcted fiom a fpecics of revenge, and fur the purpole of humbing the king of
Iruffia, and cven on hor death-bed fram exhorting the revenge, and fur the purpole of humbing the king of
Irufria, and cven on her death-bed fram exhorting the perfons who furcunded her to the mott vigorous con-
timation of it. I aifo pruceeded from this fenfibility, perfons who furcunded her to the motl vigorous con-
timation of it. It aifo proceeded from this fenfibility, that immediately on ber accuffion to the government flie made the vow never to put her fignature to a fen-
tence of death. A refolution vitich hlie faithfully kept; tevce of death. A refolution which the faithfully kept; t: us it cannot be averred to bave been for the berefit of the empire ; firce in cotiequance of it the number of malefaciors who deferved to die was every day in-
creafing, ivfumuch that even the clerzy requented the of malefactors who doferved to die was every day in-
creafing, infumuch that even the clergy requeited the emprefs to retrui her vow, at the fame time urging pricofs that thicy could releafe her from it. All the
aryumethe they corld n.e, however, were of no arail to proufs that thcy could releafe her from it. All the
aryumets thicy corld w.e, however, were of no arail to m. ve the conicientichs monarch ; the would not give Cfise to any lentence of death, aldough the cumman-
ders in the army particulaly would have been ci.id that ders in the army particularly would have been gind that her conkience had yie!ded a littie on that point. They declared th t the fo!dies were r : :o be reftrained from declared th t the faldees were ry to be reftrained from
their excuTes by the fevereil corporal punifliments they could conploy; whereas fuch was their dicad of a tolemn could cuploy; whereas fuch was their dicad of a lolemn
evecution, that a few examples of that nature would hurc effetually kept them in awe.

Commerce and litesature, ar's, manufaktures, handi- Her imcrafts, and the other means of livelimood, which had provements
been foitered by the former fovereigns, continued their the embeen foitered by the former fovereigns, continued their in the embeen foitered by the former fovereigns, continued their pirce. courfe under Elizabeth with increaling profperity. The
country products were obtained and wrought up in country products were obtained and wrought up in
greater quantitice, and fe:cral branches of profit were more zealoufly carried on. The fum appointed for the fupport of the academy of fcitnces founded by Peter I. at St I'c.et fourgh, was conGderably nuemented by Elizabeth: and die moreover cflablihed in $17.5^{3}$ the aca-
cemy ftill fubfiling for the arts of painting and fculpzabeth: and the moreover cftablithed in 17.53 the aca-
ocmy fill fubfiling for the arts of painting and fculpture, in which a number of young perfons are brought up as painters, engravers, fatuaics, architects, \&ic. At Mofco the endowed a univerfity and two gymnafia. The emprefs Elizabeth berfelf having a good voice,
moufic, The emprefs Elizabeth berfelf having a good voice,
mufic, $\underbrace{\mathrm{Rv} \cdot \mathrm{E}_{12}}$
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## RUS $\left[\begin{array}{lll}384\end{array}\right] \quad$ R U S

Ruffin. ruufic, which Anne had already much encouraged, found under ber adminiffration a perpetual acceffion of difciples and admirers; fo that even numbers of perfons of diffinction at St Peterfburg' became excellent performers. The art of acting plays was now alfo more general among the Ruffians. Formerly none but French or Italian pieces were performed on the flage of St Pe terfourgh, whereas now Sumarokof obtained celebrity as a dramatic poet in his native language, and in 1756 Elizabeth laid the foundation of a Ruffian theatre in her refidence. Architecture likewife found a great admirer and patronefs in her, St Peterfburgh and its vicinity being indebted to her for great embellifinments, and numerous ftructures.

The mognificence which had prevailed under Anne at the court of St Peterfburgh was not diminifhed during Fier reign, and the court eltablifhment therefore amounted to extraordinary fums. Elizabeth, indeed, in this refpect did not imitate her great father; and accordingly in the feven years war the want of a well ftored treafury wàs already very fenfibly felt.
The population of the empire was confiderably increafed under her reign; and fo early as 1752 , accord. ing to the ftatement in an account publifhed by an official perfon, it was augmented by one-ffih.

Elizabeth continued the practice of her predeceffors in encouraging foreigners to come to fettle in her empire. Emigrant Servians cultivated a confiderable tract of land, till then almolt entirely uninhabited, on the borders of Turkey, where they built the town of Elizabethgorod, and multiplied fo faft, that in the year ${ }^{2} 764$ a particular diftrict was formed of thefe improvemests, under the name of New Servia. Only the Jews Elizabeth was no lefs refolute not to tolerate than her father had been; infomuch that, fo early in her reign as ${ }^{7} 743$, they were ordered to quit the country on pain of death.

The army was augmented under Elizabeth, but certainly not improved. There were now no longer at the head of it fuch men as the foreigners Munich, Keith, or Loevendal, who, befides their perfonal courage and intrepidity, poffefled the foundeft principles of the art of war; and, what is of no lefs confequence in a commander, kept up a ftrict difcipline, and took care that the laws of fubordination were punctually obferved. The exceffive licence which the regiments of guards, particularly the life company of the Preobajerkoy guards, prefumed to exercife, under the very eyes of the emprefs in St Peterburg, afforded no good example to the reft of the army ; and Elizabeth, in appointing thofe foldiers of that life company, who had been mof guilty of flagrant diforders, and the bafeft conduct, to be officers in the marching regiments, gives ns no very high idea of what was required in an officct, but rather ferves eafily to explain whence it arofe that fuch frequent complaints were made of infubordination, A great number of excellent regulations that had been introduced into the army, and always enforced by foreigners, efpecially by Munich, were fuffered by the Ruffian generals to fall into total difufe. The bad effects of this negligence were very foon perceived; and it was undoubtedly a cireumftance highly favourable to the Ruffian tioops, that for feveral years fucceffively, in the war which we have had occafion fo often to mention, they lad to engage with fuch a mafier in the military art as
the king of Frumia, and by their confiits wioh lim, as well as by thuir connection with the Auftians, and in the fequel with the Pruffian foldiery, they had an opportunity of learning fo many things, and of forming themfelves into regular combatants.

Elizabeth tarnithed ber reign, however, by the infttution of a political court of inquifition, under the name of a fccret flate chancery, empowered to examine into and punifh all fucb charges as related to the expreffion of any kind of difpleafure againft the meafures of government. This, as is ufual in fuch cafes, opened a door to the vileft practices. The loweft and moff profligate of mankind were now employed as fpies and informers, and were rewarded for their denunciations and calumnies againft the moft virtuous characters, if thefe happered by a look, a fhrug of the fhoulderc, or a few harmless words, to fignify their dirapprobation of the proceedings of the fovereign *.

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She efts. poitical in. quifition.

The grand duke afcended the throne by the name of An. 1762 Peter III. This prince's condua has been varioufly rean enthufiaftic admiration of the virtues of the king of Peter III. Pruffia, with whom he immediately made peace, and whofe principles and practice he feems to have adopted as patterns for his imitation. He might heve furmounted the effects even of thofe peculiarities, unpopular as they then were in Ruflia; but it is faid that he aimed at reformations in his dominions, which even Peter the Great durft not attempt; and that he even ventured to cut off the beards of his clergy. He was certainly a weak man, who had no opinions of his own, but childifhly adopted the fentiments of any perfon who took the trouble to teach him. His chief amufement was buffoonery; and he would fit for hours looking with pleafure at a merry-Andrew finging drunken and vulgar fongs. He was a flranger to the country, its inhabitants, and their manners; and fuffered himfelf to be perfuaded by thofe about him, that the Ruffians were fools and beafts unworthy of his attention, except to make them, by means of the Pruflian difcipline, good fighting machines. Thefe fentiments regulated his whole conduct, and prepared the way for that revolution which improprieties of a different kind tended to baflen.

Becoming attached to one of the Vorontzoff ladies, Hisimprufifter to the princefs Dankoff, he difgufted his wife, who 'ences. was then a lovely woman in the prime of life, of great natural talents and great acquired accomplifhments; Whilf the lady whom he preferred to her was but one degree above an idiot. The princefs Dalhhoff, who was married to a man whofe genius was not fupcrior to that of the emperor, being dame d'loonneur and lady of the bed-chamber, had of courfe much of the empref's's company. Similarity of fituations knit thefe two illufrious perfonages in the clofeft friendfhip. The princefs being a zealous admirer of the French «conomifes, could make her converfation both amufing and infructive. She retailed all her fatiflical knowledge; and finding the emprefs a willing hearer, fhe fooke of her in every company as a prodigy of knowledge, judgement, and plilanthropy. Whilf the emperor, by his buffuonery and attachment to foreign manncrs, was daily incuring more and more the odium of his fubjects, the popularity of his wife was rapidly increafing; and fome perfons about the court exprefed their regret, that fo much knowledge of government, fuch love of bumanity, and

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fuch arient wifhes for the profperity of Ruffia, fhould only furnih converfations with Catharina Rornanovna (the princels Denikuff). The emprefs and her favourite did not le: thefe expreflions pafs uncberved, they continued their ftudies in concert; and whilit the former was employed on ber farmous code of laws, for a great empire, the latter always reported progrefs, till the midd'ing circles of Mofco and St Pcterfburgh began to $f_{i}$ eal familiarily of the bleflings which they might enjoy if thefe fpeculations could be realized.

- Meanwhile Peter III. was giving frefl caufe of difcontent. He had recalled from Siberia Count Munich, who was indeed a fenfible, brave, and worthy man ; but as he was finarting under the effeets of Ruffian defpotifm, and had grounds of refentment againft molt of the great families, he did not much difcourage the emperor's unpopular conduct, but only tried to moderate it and give it a fyftem. Peter, hovever, was impatient. He publicly ridiculed the exercife and evolutions of the Ruffirm troops; and haftily adopting the Pruffian difcipline, without digefling and fitting it for the conflitution of bis own forces, he completely ruined himfelf by difgufting the army:
135
oufed 10
Roured 10 temporary reformation
by a fpeech
of Gudo.
etch.
In the midit of thefe imprudences, however, Peter was fometimes diffurbed by the advice of virtuous counfellors. Among thefe Gudovitch, the vice-chamberlain, is faid to have reproached him in the following fpirited addrefs:
" Peter Feodorovitch, I now plainly perceive that you prefer to us the enemies of your fame. You are irrecoverably fubfervient to them; you acknowledge them to have had good reafon for faying that you were more addieted to low and degrading pleafures, than fit to govern an empire. Is it thus that you emulate your vigilant and laborious grandfire, that Peter the Great whom you have fo often fyorn to take for your model ? Is it thus that you perfevere in the wife and noble conduct, by which, at your acceffion to the throne, you merited the love and the admiration of your people? But that love, that admiration, is already forgotten. They are fucceeded by difcontent and murmurs. Peterfburgh is anxioufly enquiring whether the tzar has ceafed to live within her walls? The whole empire begins to fear that it has cherihhed only vain fpeculations of receiving laws that fhall revive its vigour and increafe its glory. The malevolent alone are triumphant; and foon will the intrigues, the cabals, which the firf moments of your reign had reduced to filence, again raife their heads vith redoubled infolence. Shake off then this difgraceful lethargy, my tzar! halten to fhew and to prove, by fome refplendent aft of virtue, that you are worthy of realizing thofe hopes that have been formed and che-

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Gatharine forms a party in her favaru.
riihed of you."
Thefe remonffrances, however, produced only a temporary gleam of reformation, and Pter foon rclapfed into his accufomed fenfuality. What he loft in popilarity was foon gained by the emiffaries of Catiuarinc. Four regiments of guards, amounting to 8000 men , were inftantly brought over by the three brothers Orloff, who had contrived to iugratiate themfelves with their officcrs. The people at large were in a fate of indifference, out of which they were rould by the following means. A little manufcript was handed about, containing principles of legiflation for Ruffia, four ided on natural rights, and on tha claims of the difierent Voz. XVIII. Part I.
clafiess of people trinich bad infenfibly been frimed, an* Rufis. becarme lo funiliar as to appear natural. In that performance was propofed a convention of deputies ofrom all the challes, and from every part of the empire, to converle, Lut without authority, on the fubjects of which it treatcd, and to inform the fenate of the refult of their deliberations. It pafied for the work of her majefiy, and was much admired.

While Catharine was trus high in the pablic eileem and affection, the emperor took the slarm at her ponat larity, and in a few days came to the refolutios of cond fining her for lite, and then of marrying his favornt: The fervants of that favourite betrayed ker to her filter! who impared the intelligence to the emprefs. Catinsrine faw her danger, and intantly formed her refolution. She muft either tamely fubnitit to perpetual imprifonment, and perhaps a cruel and ignominious death, or contrive to hurl her hufuand from his throne. No other alternative was left her, and the confequence was what was undoubtedly expected. The proper fieps were taken; folly fell before abilities and addrefs, and in three days the revolution was accomplifhed.
When the emperor faw that all was loft, he attempted Peter de to enter Cronftadt from Oranienbaum, a town on the thrond. 3 gulf of Finland, 30 verfs, or nearly 26 miles, from St Peterfburgh. The fentinels at the harbour prefented their mufkets at the barge; and though they were not loaded, and the men had no cartridges, he drew back. The Englith failors called from fhip to flip for fome perfon to head them, declaring that they would take him in and defend him ; but he precipitately withdrew. Munich received him again, and exhorted him to mount his horfe, and head his guards, fwearing to live and die with him. He faid, "No, I fee it cannot be done without fhedding much of the blood of my brave Holfteiners. I am not worthy of the facrifice." It is unneceffary for us to be more particular in detailing the progrefs of the revolution that placed Catharixe on the throne of Ruffia, as the principal circumftances attending this event are given under the life of Catherine; bat as the conclufion of the tragedy has been there omitted, we fhall relate it from the moft authentic fources which we have been able to procure.
Six days had already elapfed fince the revolution, and and put that great erent had been apparently terminated with- death. out any violence that might leave odious impreflions on the mind of the public. Peier had been iemoved from Peterhof to a pleafant retreat called Ropicha, about 30 miles from St Peterfburgh; and here he fappofed he fhould be detained but a fhort time previous to his being fent into Germany. He therefore fent a meflage to Ca tharine, defiring permiffion to have for his attendant a favourite ncgro, and that fee would fend bim a dog, of which he was very fond, together with his violin, a bible, and a few romances, telling her that, difguited with the wickednefs of mankind, he ras refolved henceforth to devote himfelf to a plilofuphical life. However reafonable thefe requeffs, not one of them was granted, and his plans of wifdom were turned into ridicule.

In the mean time the foldiers pere amazed at what they had dune; they could not conceive by what farcination they ad been hurried fo far as to dethrone the graddion of Peter the Great, in order to give his crown to a German women. The majority, without plan or 3じ
fentincont.

## $R \quad$ U S $\quad 386] \quad$ R U S

Ruffa. fentiment of what they were doing, had been mechanicaily led on by the movements of others; and eacin individual now rellecting on his bafenefs, after the y'eafure of diffofing of a crown had vanithed, was fuled only with remorfe. The lailors, who had never been engaged in the infurrection, openly reproached the guads in the tippling houles with having iold their empesor for beer. Pity, which juftifies even the greatcit criminals, pleaded irrefiltibly in every heat. One night a baind of foldiers attached to the emprefs took the slarm, from an idle fear, and exclamed that their mother was in danger, and that ihe mult be awaked, that they might fee her. During the nest night there was a freils commotion more ferious than the former. So long as the life of the emperor left a pretest for inquietude, it was thought that no tr. squillity was to be expected.

On the fixth day of tie emperor's imprifonment at Ropfcha, Alexey Orlof, accompanied by an officer named Teploff, came to him with the news of his fpeedy deliverance, and afked permiffion to dine with him. According to the cufiom of that country, wine glafis and brandy were brought previous to dirser; and while the officer amufed the tzar with fome triting dilcruife, his chief filled the glaffes, and poured a poilonous mis. ture into that which he intended for the prince. The tzar, with ut any diffrult, fiwallowed the potion, on which he immediately experienced the molf fevere pains; and on lis being officred a fccond glafs, on pretence of its giving him relief, be refufd it, with reproaches againft him that offered it.
-He called aloud for milk, but the two monflers offered him poifon again, and prefied him to take it. A French valet-de chambre, greatly attached to him, now raa in. Peter threw himfelf into his arms, faying, in a faint tone of voice, "It was not enough then to p:crent me from reigning in Sweden, and to deprive me of the crown of Ruffia ! I muft allo be put to death.".

The valet-de-chambre prefumed to intercede for his mafter; but the two nilicreants forced this dangerous winefs out of the room, and continued their ill-treatment of the tzar. In the middt of this tumult the younger of the princes Baratis fiky came in, and juized the two former. Orloff, who had already thrown down the emperor, was prefling upon his breaft with boih his knees, and firmly griping his throat with his hand. The unhappy monarch, now flruggling with that frcngth which arifes from defpair, the two other affafins threw a napkin round his neck, and put an end to his life by fuffocation.

It is not known with certainty what fhare the emprels had in this event; but it is affirmed that on the very day on which it happened, while the emprefs was beginning her dinner with much gaiely, an officer (fup. pofed to be one of the affaffins) precipitately entered the apartment with his hair difhevelled, his face covered with fiweat and dult, his clothes torn, and his countenance agitated with horror and difnay. On entering, his eyes, fparkling and confufed, met thofe of the cm prefs, Slie arofe in filence, and went into a clofet, whither he followed her; a few moments afterwards fthe
fent for Count Panin (the former governor of Peter), who was already appointed her minitter, and the informed him that the emperor was ciead, and contulted bim on the mamer of amouncing his ticath to the public. Pal in advi.ed her to let one night pals over, and to fpread th yeevs next day, as if they had recenvid it during the night. This courtitl bcing approved, the enprel's returned with the fame countenance, and continurd her dimer with the fame gaiety. On the day following, when it was publified that I'eter had died of an hemorrhoidal colic, the apyeared bathec in teas, and proclained her grief by an edict.

The corpfe was brought to St Peterfurgh, there to be expofed. The face was black, and the neck cicoriated. Notwitoftanding thefe hurrible marks, in order to afluage the commotions which began to excite apprebenfion, and to prevent impoltors from heleater difturbing the empire, hit was left three days, expofed to all the people, with only the ornaments of a Fioltein officer. His foldiers, clibanded and ditarmed, rool gled with the croi.d; and, as they beheld their Lovereag', their countenances indicaied a mixiure of compaftica, contempt, and flame. They were foon attersards embarked for their country; but, as the fequel of their cruel deflin.y, almoft all of thefe unfortwnate men perified in a form. Some of them kad laved themfelves on the rocks adjacent to the coaft; but they again fell a prey to the waves, while the commardant of Cionfladt difpatched a mefienger to St Peterfourgh to kiow whicher he might be pernmud to afijh thenn ( N ).

Thius fell the unhappy Peler 111. in the 34 th year of his age, after hasing enjoyed the imperial dignity only fix nonths. Whaitecr may have been his faults or fullies, it maft be allowed that be fuffered dearly for them. Of the violent nature of his death there can fcarcely te a doubt, though there appear to be grounds fur believing that, lowever much Catharine inult have willed for his rumoval, fhe cid not take an active part in his death.

On her acceffion, Catharine beliaved with great mag- cat ris nanimity and forbearance towards thole who had oppo- 11 afcerds fed ber tlevation, or were the declared friends of the de the mimersio ceafed emperor. She gave to Plince George, in ex. al thiolle change for his title of duke of Courland conferred on him Ly Peter, the government of Holfein. She reinfated Biren in his dukedon of Courland; seceived into favour Marflal Munich, who had readily tranfferred his fidelity. fiom the dead to the living, and even Iardoned her rival, the Countefs Vorontzcff, and fermitted her to retain the tckens of her loven's munificence. She permitted Gudovitch, who, as we bave fecn, was high in the conficence of Pecer, and had incurred her particular diffleafure, to retire to his mative country. Perhaps the molt uticxpected part of her conduet towards the friends of Peter, was her adhering to the treaty of peace which that monarch had concluded with the king of Piufia fix months tefore. The dcath of his inveterate enemy Elizabeth had relicved Frederick from a load of folicitude, and had extricaicd lim from his dangcrous fixuation. He nuw, as he thought, faw him-
(N) The above account of Peter's aff fination is taken chiefly from M. Rulhiere's IFi?cire ou A Accdutes fur lo Revolution de Ru/fie, with fome modifications from Tooke's Life of Catherinc II.

## £́ U S $[387] \quad R$ U S

Ralfia. Relf again involved in a war with the fame furmidable power ; but to his. great joy he found that Catharine, from motives of policy, declined entering on a war at the commencement oi her reign.
An. 1764. In one particular the emprefs fhowed her jealoufy 1.0 . and her fears. She increafed the vigilance with which Alfatina- the young prisce Iran was confined in the caftle of dethrond
$\begin{aligned} & \text { Schluffelburg, from which Peter III. had expreffed a } \\ & \text { tzar. } \\ & \text { sefolution to releaie Him. Nut long afier her acceffion, }\end{aligned}$ tzar.
this unfortunate prince was aflaflinated; though whether this event was to be imputed to the emprels or her counfclors, cannot be determined. The circumitances of the aflalfination are thus related by Mr Tooke, from documents fupplied by a manifefto publifhed by the court of Peterfourgh, and fuppofed to be written by the emprefs herfelf.
" A lieutenant, named Mirovitch, thinking himfelf neglected as an officer, conceived a plan to revenge himfelf on the emprefs Cathatine II. by delivering the captive Ivan from his dungeon, and replacing him on the throne : a plan which, befides the exraordinary difficulties with which it mult be attended, feemed unlikely to fucceed, as the manner of life to which that prince tad ail along been condermed, difqualified him forever for the flation of a ruler. Yet Mirovitch, cepable of any attempt, however inconfiderate, to which he was prompled by his vindictive fpirit, found means to gain ow r a few accomplices to his rafh defign. The emprefs laving gone on a journey into Livonia in 1764, and he happening to have a command at Schlufielburg, for firengthening the guard at that fortrefs, whereby he had frequent opportunities of making himfelf thoroughly sequainted wih the place of Ivan's confinement, caufed the foldiers of his command to be roufed in the night, and read to them a pretended order from the emprefs commiffioning him to fet the prince at liberty.
"The foldiers thus taken by furprife, were induced by threats, promiles, and intoxicating liquors, to believe what, however, on the flighteft reRection, muft have ftruck them as the groffert abfurdity. Headed by Mirovitch, they proceeded to the cell of Ivan. The commandant of the fortrefs, waked out of his ficep by the unexpected alarm, immediately on his appearing, received a blow with the butt end of a muket, which firuck him to the ground ; and the two officers that had the guard of the prifoner were ordered to fubmit. Here it is to be obferved, that the officers whofe tuin it was to have the cuftody of him, had uniformly, from the time of Elizabeth, fecret orders given them, that if any thing Ghould be attempted in favour of the prince, rather to put him to death than fuffer him to be carried off. They now thought themfelves in that dreadful predicament ; and the prince who, when an infont of nine wceks, was taken from the calm repofe of the cradle to be placed on an imperial throne, was likewife faft locked in the arms of fieep when that throne was taken from him only one year afterwards, and now alfo enjoying a fhort refitite from mifery by the fame kind boon of nature, when he was awakened-uy the thrut of a fword; and, notwithfanding the brave refiflance which he made, clofed his eyes for ever by the frequent repetition of the ftolie. Such was the lamentable end of this unfortunate prince! of this Ruffian monarch! The event excited grea asimadverfion throughout the refidence; every unbiaffed perfon bewailed the youth fo innocently
put to dath; and incerinat crowds of pe ple 1. 2en to fee his body in the church of the furtrel' of atheiburg. The goverment was at length obliged to fiur? it away by night for iuhu uation in a monati-ryat ac nfiderable diffance from $t$ whe. Mirovich paid the forfeit of this enterpuite with his head + ."

Were we to ofier a detailed account of the principal tranfalions that took place during the long reign of Catharine, we fhould far exceed the limits wihhin which ansel time repeat much of what has already been given under he rein ${ }^{\text {a }}$ other articles. As the events that dintinguithed the life ot Cathas of Catharine, however, are too important to be wholly omitted, we fla: 11 prefent our readers with the following chronological isetch of them, referring for a more particular account to Mr T'ooke's Lifc of Catherinc II. and to the articles Catherine II. Brif.bin, France, Poland, Prlisha, Sweden, and Tlrkey, in this work.

The year 1766, prefented at St Peterfburgh the An. 17 (6. grandeft fpectacle that perhaps was ever feen in Europe. At an entertainment, which the emprefs chofe to name a caroufal, the principal nobility appeared in the molk fumptuous dreffis fparkling with diamonds, and mounted on horfes richly caparioned, in a magnificent theatre erecied for that purpofe. Here all that has been read of the ancient joufts and tournaments was realized and exceeded in the prefence of thoufands of fipectators, who feemed to vie with each other in the briiliancy of their appearance.

In 1768, the emprefs compofed inftructions for a nerv An 176 . code of laws for her dominions; and the fame year fhe fubmitted to the danger of inoculation, in order that her fubjects, to whom the practice was unknown, might be m-nt of a benefited by her example; and the experiment, under laws. Baron Dimfdale, having happily fucceeded, it was cummemorated by an annual thank fgiving.

In the fame year a war broke out with the Ottoman Porte. The various events of this long and important $W_{\text {er }}{ }^{\text {r }}$ with conflict, which continued for feven years, mult here be the Turhs. only brielly enumerated, as they will hereafter be more particularly noticed under the article Turkey. In this war, our countryman Greig, then an admisal in the Ruffian fervice, bighly diftinguifhed himfelf by his conduct in a naval engagement with the Turks, in the harbour of Tchefme in the Archipelago, in which the Turkifh fleet was entirely defeated, and their magazines defroyed. This tork place on the $4^{\text {th }}$ of November 1772.

In the beginning of the year s 769 , the khan of the Kri- An 176 . mea made an attack on the territory of Bachmut on the ${ }^{1 / 44}$ river Bog, where he was feveral times bravely repulfed, Progicics with his army of Tartars and Turks, by Major-general Ro- and conclumanius and Prince Praforofskoi. At the fame lime were war with fought the battles of Zekanofca and Sorocaon the Dniepr, Turkeywhen the large magazines of the enemy were burned. In February the Polifl Kozaks in the royvoderhip of Braclau put themiclves under the Ruffian fceptre. In the fame month the Niforian Saparogian Kozaks gained a battle in the deferts of Krim. In March the Polifl rebels were fubdued, and their town taken by Major-general Ifmailof. April 2. the fort of Taganrock, on the fea of Az of, was taken. On the 15 th the Ruffian army, under the general in chief Prince Galitzin, croffed the Dnieftr. On the 19th a vietory was gained by Prince Galitzin near Chotzim. On the 21ff thic Turks were defeated not fir fron Choizim by Lieutenant-gencral Count Soltikof. The 2gih, an action was fought betueen the Fuffian Kal mioks and the Kuban Tartars, to the difodvantage of tie latter. June 8th, the Turks were dcfcated at the mouth of the Daiepr near Otchak of. roth, An attion took place on the Daieflr, when the troops of Prince Proforofskoi forced the Turks to repals the river in great diforder. Chotzim was taken September 19th. Yafly, in Moldavia, was taken 27 th September. Bucharef, in Vallachia, was taken, and the hofpodar made prifoner, in November I770. A victory was gained by the Ruffians under Generals Podhorilhany and Potemkin, near Fokfhany. The town of Shurfha was taken by Lientenant-general Von Stoffe!n, Feb. 4. A Ruffan fleet appeared in the port of Maina in the Morea, Feb. $1_{7}$. Mittra, the Lacedamon of the ancients, and feveral other towns of the Morea, were taken in February. Arcadim in Greece furrendered, and a multitude of 'Turks were made prifoners, in the fame month. The Turks and Tartars were driven from their entrenchments near the Pruth, by Count Hiumantzof, Prince Repnin, and General Baner, 1 ith1 6th June. Prince Proforofskoi gained feveral advantages near Oichakof, June 18 . The Rufian fleet, under Count Alexey Orlof, gained a complete vi\&tory over the Turks near Tfcheme, June 24th; the confequence of this victory was the deftruction of the whole Turkith fleet, near T'fchefme, where it was burned by Admiral Greig, June 26. A battle was fought on the Kagul, in which Count Romantz of defeated the Turkith army, confilting of 150,000 men, took their camp, and all the artillery, July 21. The fortrefs Bender was taken July 22. The town of Ifmail was taken by Prince Repnin, July 26. Kilia by Prince Repuin, Auguft 21. and Ackerman in Oetober. Brailof was taken, November 10. 1771. The fortrefs of Shurfia by General Olitz, on February 23.; the town of Kaffa by Prince Dolgoruckof, June 29.; the fort of Kertchi, July 2.; the fort of Yenicali, July 3.; and numberlefs other victories were obtained by fea and land, till the peace was concluded the $13^{\text {th }}$ January 1775 . By this $^{\circ}$ the Krimea was declared independent of the Porte, all the valt tract of country between the Bog and Dniepr was ceded to Ruffin, befides the Kuban and the ifle of Taman, with free navigation in all the Turkifh feas, inrluding the paffage of the Dardanelles, privileges granted to the moft favoured nations, and ffipulations in behalf of the inhabitants of Moldavia and Vallachia.
A. 1779.

In 1779 , the emprefs intending to divide the empire into vicerovalies, began in January with the vicerovalty of Orlof. March 21. a new treaty was figned at Conftantinople between Ruffia and the Porte. May 13. the treaty of neace between the belligerent powers in Germany, and the French king, was figned under the mediation of her majeftv. In June fhe eftablifhed an hofpital for invalids at Mofco, to be confined to officers. In July, General Bauer received orders to caufe a canal to be cut to fupply Mofco with wholefome water. In October, a Thip built at Taganrock, named the Prince Conftantine, failed to Smyrna with Ruffian commodities. December 3. the viceroyalty of Voroneth was inftitu-
ted ; a:d ther $2 \boldsymbol{\gamma}$ th, Count Romantzof Zadunaiki opened the viceroyalty of Kurk with great folemnity.

In 1780 , February, 28 . appeared the memorable declursion of her imperial maielly, relating to the fafety 146 of wavigation and commerce of the neutral potiers. Nay 0 . the emprefs fet out on a journey to White Ruf-nany vifits fia from Zarfcoi Selo, vinted Narva, Plefcof, met the Kufia. emperor of Germany under the title of Count Falkenftein at Mohilef, and they purfued the journey together to Smolenff. June 6. Count Falkenftein arrived at Mofco. The 1 yth, the emprefs returned to Zarfooi Selo, and the count Falkenftein arrived at St Peterfburgh. July 8. the emperor returned to Vienna.

In 1781 , March 1 . the emprefs became mediatrix An. $\mathbf{r}_{7} \mathrm{Sr}_{\mathrm{r}}$ between England and Holland. April 5. inflituted the ${ }^{147}{ }^{147}$ firll public fchool in St Peterfburgh. Augutt 27. the ment of pue grand dukes, Alexander and Conftantine, were inocu-blic fchools lated by Baron Dimidale. Auguft 31. the firf ftone in St Peterfo of a cathedral was laid at Cherfon, dedicated to $\mathrm{St}_{\mathrm{C}}$ - burgh. therine. September 19. the grand duke, Paul Petrovitch, and his confori, Maria Feodorovna, departed from Zaricoi Selo, through Plefcof, Mohilef, and Kief, on a journey into foreign countries, under the title of Count and Countefs of the North.

In 1782, by command of her majefty, dated Ja- An. $17 \% 8_{2}$ nuary 18. a Pi yan Catholic archbifhop was inflalled in the city of Mohilef, with autbority over all the Catholic churches and convents in the Reffian empire. Au-Peter lbe guft 7. the famous equeftrian flatue of Peter the Great Great fio being finifhed, was uncovered to the public in prefence of the emprefs, on which occafion the publifhed a proclamation containing pardons for fereral criminals, \&c. (G). November 22. the order of St Vladimir was inftituted. The 27 th, the emprefs publifhed a new tariff. November 20. the grand duke and his duchefs, having completed their travels through Germany, Italy, France, Holland, the Netherlands, \&c. returned to St Peterfburgh.

In 1783 , May 7 . the emprefs inftituted a feminary An. $17^{8} 3$. for the education of young perfons of quality at Kurf. June 21. a treaty of commerce concluded with the Ottoman Porte. July, the inftitution of the other viceroyal effion to in Port. Jily, ties of the empire followed in fucceffion. July 21 , the empire. emprefs publifhed a manifetto by her commander in chief Prince Potemkin, in the Krim, in regard to the taking pofielfion of that peninfula, the Kuban, and the ifland of Taman. The 24th, a treaty was concluded with Heraclius II. tzar of Kartalinia and Kacketti, by which he fubmitted himfelf, his heirs and fucceflors for ever, with his territories and dominions, to the fceptre of her majelty, her heirs and fucceffors. The 29th, account was received from the camp of Prince Potemkin at Karas-Bafar, that the cleagy, the beys, and other perfons of diffinction, with the towns of Karas-Bafar, Bachthhiferai, Achmeichet, Kaffa, Konfof, with the diftriets of Turkankoikut and Neubatar, and that of Pcrekop, in the peninfula of the Krim, together with the hordes of Ediffank and Dhambolufi, the fultan Alim Girey, and his vaffals, with all the Budfhaks and Bafhkirs there, and all the tribes dwelling beyond the river Kuban, the fultan Boatur Girey and his vaffils, took

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Rurid." the rath-of elleginnce to her imperial majeny, and with willing hearts fubmitted for ever to hor glorious fivay. The 3oth, the hofpodar of Vallachia was depofed, and $D_{\text {raco }}$ Sutzo fet up in his place. September 22, her

1 0
Imperialscadeany of St beterf-
burgh o-
pened. majeity raifed Gabriel, archbithop of Novgorod and St Peteribargh, to the dignity of netropolitan. October 21 . in the great hall of the Academy of Sciences, the new inftitution of the Imperial Ruffian academy was opened, after a moft lolemn confecration by the merropolitan Gabriel, and others of the clergy, under the prefidency of the princefs Dankoff. November r. the emprefs became mediatrix for accommodating the differences between the king of Pruffia and the city of Dantzic. The fchool for furgery was opened at St Peterfburgh on the 18 th. December 13. a fchool commifion was inflituted for fuperintending all the public fchools. The 28th, an aft was concluded with the Ottoman Porte, by which the poffeffion and fovereignty of the Krim, the Kuban, \& \& were folemn!y made over to the emprefs.
An. $17 \$_{4}$. 178 . . January 1, the fenate moft humbly thanked her majefty for the benefactions which the had gracioufly beftowed on the whole empire in the preceding year, in a fpeech by Field-marfhal Count Razomofskoi. The 18 th, the Roman Catholic archbifhop of Mohitef, Staniflaus Tihefrentihevitch of Bogufh, conflituted by her majefty, was, with a variety of church ceremonies, folemnly invefted, in the Roman Catholic church at St Peterfburgh, with the pallium from his holinefs the pope, by the papal ambaffador Count Archetti, archbifhop of Chalcedon. OEtober I4. the Lefgiers, having croffed the river Alafan, and invaded the dominions the Rufian fim, the ferdar and court-marfhal Prince Zeretelli, and empire. the chief juftice Kuinichefe, ambaffador from David, tzar of Imeretia, were admitted to a public audience of her majefty, at which they fubmitted, in the name of the tzar, him, and his fubjects, to the will and porverful protection of her imperial majefty, as the rightful head of all the fons of the orthodox eaftern church, and fovercign ruler and defender of the Georgian nations.
An. 1785
$15^{3}$
Several pro rincial
fchools efta
bluhed.
1785. January I . the fenate, in the name of the empire, humbly thanked her majefty for the benefits fhe had beflowed upon it during the preceding year. The 8th and 15 th, the emprefs in perfon, held a public examination of the young ladies educated in the Devitza Monaftery. The 12 th, Mauro Cordato, hofpodar of Vallachia, was depofed; and Alexander Mauro Cordato, his uncle, reftored to that dignity. The 21ft, the emprefs vifited the principal national fchool, and paffed a long time in examining the clafies, and the proficiency of the youth in that feminary; on which occafion a marble tablet was fixed in the wall of the fourth clafs, with this infeription, in gold leters: Thou visitest the vineyird which thy own hand hath plantED, Jan. 21. 1785. April 21. the privileges of the nobility were confirmed; and, on the fame day, the burghers of towns conflituted into bodies corporate, by 2 particular manifefto. The public fchool in Voronet fk was onened. The 24 th of Mav, her majcfly went to infpect the famous fluices at iifhney Volotflok, and other water communications, and from chence proceeded to Mofco. June 19. her majefly returned to St Pe-
verfourgh. July 3. Aie vinited the haidware ramactories at Sifterbeck, in Fislanc. I-th, A maniteto was iffaed, granting full liberty of religion and commerce, tonall foreigners fettling in the regions of Mount Caucafus, under the Ruffian government. September 1 j. the priblic fchool at Niffiney Norgorod was opened. Ufober 12 . the Jefuits in White liuffia, in a general affembiy, elected a vicar-general of their order. November I. a treaty of commerce was concluded with the emperor of Germany. The 2 th, the Ruffian conful, in Alexandria, made his public entry on horfeback (aia honour never before granted to any power) ; erccted the imperial Aandard on his houfe, with difcharge of camon, \&c. Deccmber 28. a Ruffian mercantile fiigate, fully freighted, arrived at Lecghom from Conilaittinople.
1786. January rft, the fenate returncd thanks for the An. 1786 . benefits conferred on the empire. From the 11 th to the r6th the new election of perfons to the offices in the Peterfburgh government, ending with mafquerade and illuminations, took place. The 29th, the emprefs confirmed the plan of a navigation fchool. February 12 th, by a decree, the ufual flavith fubferip:ions to petitions were to be difcontinucd; and, inttead of them, only the words humble or failhfiul fuljeit; and, in certain cafe;, only The roads fubject were ordained to be ufed. March 2d, the em-repair dat preis granted the univerfity of Mofoo 125,000 rubles, the expence and all the materials of the palace Kremlin for increafing its buildings. The $25^{\text {th }}$, a decree was paffed for making and repairing the rods throughout the whole empire at the fole expence of the crown, and $4,000,000$ of rubles were immediately allotted for the road between St Peterfburgh and Mofco. April 10th, a new war eitablifhment for the army was figned: 23 d , the hofpodar of Vallachia was depofed, and Navroyeni fct up in his place. June 28th, the emprefs inftituted a up in his place. June 28 th, the empres initituted a ${ }^{1} 54$ lotted $22,000,000$ to be advanced to the nobility, and eftablifhed. $11,020,000$ to the burghers of the town, on very advantageous terms. Auguit 5 th, there were publinied rules to be obferved in the public fchools. October 4 th, a large Ruffian fhip, with Ruffian productions from St Peterfourgh, arrived at Cadiz. November 24th, the emprefs erected public fchools at Tambof. December $14^{\text {th }}$, Prince Ypflanti was appointed hofpodar of Moldaria in the room of the depofed Mauro Cordato. December $3^{1 / f \text {, a treaty of commerce and navisation was }}$ concluded between Ruffia and France.
1787. January 7 th, the emprefs departed from Zar- Ab. 1757. fa i Selo on a journey to her fouthern dominions: 29th, ${ }^{1}{ }^{15} 5$ after having vifited the towns of Veleki-Luki, Smolenfk, Prontefs of Sterodub, Novgorod Sevelkoi, Berefua, Thermigof, through Exc. leaving teffimonies of hct cluncncy and bounty in part of the each, arrived at Kicf. February $6-7$ th, the depofed hof empire. podar of Moldavia, Miauro Cordato, thinking his life not fafe in Yaffi, found an opportunity privately to efcape. March, public fchoo's were endowed and opened at Rofof, Ugliifh, Molaga, and Romanof, is the viceroyalty of Yaroflavl ; alfo at Uftiug and Arafovitz in the viceroyalty of Vologda. $\Lambda_{1}$ ril 21ft, a manifeflo was iflued for prorioting peace and concord among the burchers of the empire. The 22d, her majefly purfued her journey from Kief to the Duiepr. The $2 s^{\text {th, }}$ the concerted interview between her and the king of Polend, near the Polifls town of Konief, took p'ace. The

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Ruffiz. soth, the emprefs vifited Krementhuk in the viceroyalty of Kitarinoflauf. The treaty of conmerce with England being expired, the Britifh factory were informed that they mut henceforward pay the duties on imports in filver money, like the other nations who had no commercial treaty. May 7 th, the emprefs hearing that the emperor of Germany was at Cherion, proceeded thither, and met him there on the 12 th. The 17 th , fhe prolecuted her journey to the Krim. June 2d, the emperor, after travelling with her majefty through the Krim, took leave of her at Boriflauff, in the viccroyalty of Katarinoflauf, on his way home. 23 d . The empre's having returned from the Krim, through Krementikuk, Pultava, Kark, Orel, and Tula, arrived at the village of K jlumenik, feven verts from Mofco. June 28th, the 25 th anniverfary of her reign, fhe difplayed various marks of her bounty. The debtors to the crown were forgiven, prifoners releafed, impols taken off, foldiers rewarded, \&c. July $4^{\text {th }}$, seturned over Tver, Tula, Valdai, Vihmei-Volothok, and Novgorod, to ZarkoiSelo, where fhe arrived the 11 th. The 12 th, the new built fchool at Riga, called Lyceum, was folemnly de-
$r \leq 6$ dicated. Auguft 5 th, Bulgakoff, the Ruffan ambaffaRenewalof dor, at the Ottoman Porte, was imprifoned in the Seven kot lities
with Turkey. prefs regarded as a public declaration of war. 21ft, The Turkifh fleet at Otchakof, attacked the Ruffian frigate Skorui, and the floop Bitingi, but was repulfed and put to flight by the bravery of the latter. Many fignal advantages were gained over the Turks; feveral public fchocls founded in various parts of the empire between this and Auguff following; during which time the war broke out with Sweden.
An. 1758.

Swetlen.

25,000 ; the Ruffims loft 956 killed and I 8.24 woûnd ed. December 1 gih, General Kamenfkoy gained confiderable advantages over the Tuaks near Gangur.
1789. April 16th, Colonel Rimikoy Koriakoff was An 1789. farrounded by the Turks, whoiwere beaten, with great $1 ; 8$ Alaughter, by Lieutenant-General Von Derfelden, 17 th Numerfus - 28 th, Some Ruffian cruifers from Sevattopol effect- over the ed a landing on Cape Karakarman, burnt fix roofques, Turks and and carried off great booty. 20th, General Derfelden Swedes. drove the Turks from Galatfh, gained a complete victory, killed 2000 , took 1500 prifoners, witb the fcrafkier Ibrahim Pafia, and the whole camp. Several fkirmifhes took place between thie Rulfians and Swedes in Finland, alivays to the adrantage of the former. May 31 ft , another victory was gained over the Swedes. June 5 th, Sulk of was taken from the Swedes, and fort St Michael on the 8th. July, isth, Admiral 1'chitchagoff engaged the Swedifh fleet under the command of the duke of Sudermania; but no thip was loit on either fide. 21 ft , A battle was fought at Fokfhany to the great lofs of the Turks, and Fokfthany was taken. Auguft 13th, the Ruffian galley fleet fought the Swedifh under Count Ehrenfchwerdt, the former took a frigate and five other fhips, and 2000 prifoners. Augult 21 ft, another fea fight took place, and Prince Nalfau Siegen made good his landing of the Ruflian troops in fight of the king of Siveden at the head of his army. September 7 th, Prince Repnin attacked the ferafkier Haffan Patha near the river Seltaka, and took his whole camp. Isth, Count Suvareff and prince of Saxe Cobourg engaged near the river Kymnik the grand Turkith army of nearly 100,000 men, and gained a complete victory; from which Count Suvaroff received the furname Kvmnikfkoi. 14th, The Ruffian troops under General Ribbas, took the Turkifh citadel Chodihabey, in the fight of the whole of the enemy's fleet. 3oth, The fortrefs Palanka being taken, the town of Belgorod or Akermann furrendered to Prince Potemkin Tavrithefkoi. November $4^{\text {th }}$, the town and caftle of Bender fubmitted at difcretion to the fame commander.

1790, April 24. General Numfen gained a victory An. ryoe. over the Swedes near Nemel. May 2, a fea fight 159 took place off Reval, in which the Rumfians took the Peact with Prince Charles o: 64 guns, from the Swedes; and in Sweden. this engagement thofe two gallant Englih officers, captains Trevernin and Denifon were killed. 23d, the fleet under Vice admiral Crufe engaged the Swedifh fiect near the ifland Silkar, in the gulf of Finland, without any advantage being gained on either fide, though they fought the whole day. $24^{\prime} \mathrm{h}$, an action was fought at Savataipala, when the Swedes were forced to fly. June 6. the Swedes were defeated by Major Buxhovden, on the illnd Uranfari. June 22. the whole Swedifi fleet, commanded by the duke of Sudermania, was entirely defeated by Admural' 'chifhagoff and the prince of Naffau Siegen; on this occafion 5000 prifoners were taken, amongf whom were the centre admiral and 200 officers. 28. Generai Denifuff defeated the Swedes near Davidoff. July gth, Admiral Uflak off obtained a victory over the Turkill fleet commanded by the capudan pafha, at the mouth of the fraits of Yenikoli. Augutt 3. peace was concluded with Sweden, without the mediation of any other power. Augult 28 , 29. an engagement tock place on the Euxine, not far from Chodglabey, between the Ruffian admiral Ufla-

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Rimis. Koff and the capudan palha, when the proncipal liurkilh fhip, of 80 guns, was burnt, one of 70 guns, and three taken, the adminal Said Bey being made prifoner, and another hip funk; the reft made off. September 30. a great viciory was obtainsd over the Turks Ly Gizneral Germann, with much flaughter, and the iorathicr Butal Bey, and the whole camp, were taken. Octuber 18. Kilia furrendered to Major Bibbas. November 6,7. the fortrefs Cultha and the 'lurkilh flotitla were taken. December 1s. the important fortrels of limail, after a itoming for feven hours without intermiffion, furrendered to Count Suvaroff, with the gars ion of 42,000 nien: 30,816 were 1 lain on the fpot, $2000^{\prime \prime}$ dicd of their wounds, 9000 were taken prifoners, with 265 pieces of cannon, an incredible fore of ammunition, \&ic. The Ruffizns loft only 1815 killed, and $2+50$ wounded.

An 1791.
 The Tuiks repeatco.y detanted,

1791, March 25-31. the campaign opened by the troops under Prince Potemlin, not far from Brailof, when the Tu:ks were defeated in feveral tattles, in which they leit upwards of 4000 men. June 5 . the troops under General Golenit (hef Kutufuff, near Tultfha, drove the Turks beyond the Darube, and at Babada entirely routed a body of 15,000 men, of whom ${ }^{1} 500$ were left dead upon the field. 22. The fortrefs Anapuas was taken by Ilorm, when the whole garrilon, confifting of $25,000 \mathrm{men}$, were put to the fword, excepting 1000 who were taken prifoners. 28. The troops under Prince Repnin attacked the Turkifi army, confiting of nearly $8 \varepsilon, 000$ men, commanded by the grand vizir Y'uffuf Pafha, eight palhns, two Tartar fultans, and two beys of Anato:ia; and after a bloody battle of fix bours, entirely routed them: 5000 Turks were killed in their flight. June 28. Sudikuk Kale was taken. July 31. Admiral Ulhakoff beat the Turkih
161 and obliget to make peace, Prince Repmin and Yufluf Pafia figned the preliminaries of peace between the Rufian empire and the Ottoman Porte, by which the Dnieftr was made the boundary of the two empires, with the ceffion of the countries lying between the Bog and the Dnieftr to Ruffia. Auguit 15, 16. at Pilnitz near Drefden, a congrefs was held by the emperor of Germany, the king of Pruffia, the elector of Saxony, the count d'Artois, \&cc. \&c. One of the moft important events in this year was the death of Prince Potemkin at Yaffy in Moldavia on the 1 sth October.

An. 1792. 162 Frefh invation ot Po. land.
1792. Early in this year Bulgakoff, the Rufian minifter at Warfaw, declared war againft Poland; and the Polith parriots raifed an army in which Thaddeus Kofciufko (or according to fome Kofcliefsky) foon bore a confpicuous part.

In 1783 , the diet of Poland had abrogated the confitution which the emprefs of Ruffia had, in 1775 , compelled that nation to adopt, and had formed an alliance with the kiteg of Pruffia, by way of defence againtt the further cncroachments of the Ruffian defpot. Three years after, viz. on the 3d of Niay 1791, the new conflitution which was irtended farther to deftroy the ambitious hopes of Catharine, was decreed at IVarfaw. See Poland, $\mathrm{N}^{\circ} 125$. Thefe were affronts which the Ruffian emprefs could not forgive, and in one of the conciliabula, in which the minifters of fate, and the favourite for the time being, fat to regulate the affairs of the north of Europe, and to determine the fate of the furrounding nations, the annihilation of the Polif monarchy was refolred on.
4 4,

The dcclaration of war above menti. ned was de- Rumia. nouncet by Bulgakoff at an affembly of the diet. See $\underbrace{\text { Rum }}$ 1unAND, $N^{0} 148$. That body received the declaration with a majellic calmuefs, and relolved to take meafures for the defence of the nation. The generous enthufialm of liberty foon fpread throughout the republic, and even the king pretuded to flate in the general indignation. An army was haltily collected, and the command of it beltowed on Prince Jofeph Poniatofshy, a general whofe inexperience and trivolus purfuits were but ill adapted to fo important a charge.

Ii the mean time ficteral Rullian armies were preparing to overwhem the fmall and difunited forces of the Poles. A body of 80,000 Kuffians exterided itielf along the Bog; another of 10,000 was collefted in the environs of kief, and a third of 30,000 penetrated into Lithuania. While thefe armies were carrying murder and defolation through the Poilf territories, Catharine was employing all her arts to induce the neighbouring powers to juin in the partition ot Poland, and in this thee was but too fucceffful. A trcaty was accor tingly concluded between the emprefs and the king of Prutlia, by which either approprated to iffelf a certain Thase of the renains of Poland. Sianiflaus Augullus, the powerlels head of that republic, was prevailed on to make a public declaration, that there was a neceffity for yielding to the fuperiority of the Ruffian arms.
1793. On the 9 th of April the Polith confederation An 1793. of the partizans of Ruffia affembled at Grodno; and on this occafion the Ruffian general placed himfelf under the canopy of that throne which he was about to declare for ever vacant, and the Ruffian minifter Sievers, produced a manifefto, dcclaring the intention of his miftrefs to incorporate with her domains all the Polifh territory which her arms had conquered.

The Ruffian foldiers difperfed through the provinces, committed depredations and ravages of which hiftery furnithes but few examples. Warlaw became efpecially the theatre of their excefles. Their general Igelifrom, u ho governed in that cily, connived at the dilorders of the foldiers, and made the wretched inhabitants feel the whole weight of his arrogance and barbarity. The patriots of Poland bad been obliged to difperle; their property was confifcated, and their families reduced to fervitude. Goaded by fo many calamities, they once more took the refolution to free their country from the oppreffion of the Ruffians, or perifi in the attempt. Some of them aftembled, and fent an inritation to Kofciunko, to come and lead thern ous againtt the invaders of their freedom.

Kofciulko had retired to Leipfic with Kolontay, Zagonchek, and Ignatius Puttocky, all eminent for patriotilm and military ardour. Thefe four Poles hefitated not a moment in gising their approbation to the refolution adopted by their indignant countrymen ; but they were fenfible that, in order to fucceed, they mult begin by emancipating the peafants from the tiate of forvitude under which they then groaned. Kofciufio and Zasonchek repaired with all expedition to the tronticrs of Puland, and the latter proceeded to Warfaw, where he beld conferences with the clief of the confpirators, end particularly with feveral officers who declared their deteftation of the lluflian yoke. All appeared ripe for a general infurreclion, and the Rufian commanders whofe fufpicions had becn excited by the appearatice of Kotciufko

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Rufia ciufio on the frontiers, obliged that leader and lis confederates to portpone for a time the execution of their plan. To deceive the Rulfians, Kofciufto relired into Italy, and Zagonchek repaired to Drefden, whither Ignatius Potofki and Kolontay had gone before him. On a ludden, however, Zagonchek appeared again at Wraufaw, but was impeached by the king to Gealeral Igelltrom, and, in a conference with the general, was ordered to quit the Polifl territory. He-mut now bave abandoned his enterprile altogether, or immediately proceeded to open infurrection. He chofe the latter.

An. 1794. 165 Atrempts of the patriots to oppofe the in-croachments of Rufia.
1794. Kofciullo was recalled from Italy, and arrived at Cracow, where the Poles received him as their deliverer. Here he was joined by fome other officers, and took the command of his little army, confifting of about 3000 infantry, and 1200 cavalry. On the $24^{\text {th }}$ of March was publifhed the manifefto of the patriots, in which they declared the motives for their infurrection, and called on their countrymen to unite in the glorious attempt to free the republic from a fureign yoke. Kofciufko was foon joined ky 300 peafants armed with fcythes, and. forme other fmall reinforcements gradually came in. A body of 7000 Ruffians had collected to oppole the movements of this little army, and a battle took place, in which the patriots were fueceffful.

While the infurrection had thus aufpicioufly commenced on the frontiers, the confederates of the capital were nearly crufhed by the exertions of the Ruffian general. Hearing at Warlaw of the fuccefs of Kofciufko, Igelfitrom caufed all thofe whom he fufpected to have any concern in the infurrection, to be arrefted; but thefe meafures ferved only to irritate the confpirators. On the 1 Sth of April they openly avowed their confederacy with the patriots of the frontiers, and proceeded in great numbers to attack the Ruffian garrifon. Two thoufand Rufians were put to the fword, and the general being befieged in his houfe, propofed a capitulation; but profting by the delay that had been granted him, he eicaped to the Pruffian camp, which lay at a little diftance from Warlaw.

Wilna, the capital of Lithuania, followed the example of Warfaw, but the triumph of the infurgents was there lefs terrible, as Colonel Y'afinky, who headed the patiots, conducted himfelf with fo much fkill, that he made all the Ruffians prifoners without bloodhed. The inhabitants of the cantons of Chelm and Lublin, alfo declared themfelves in a flate of infurrection, and three Polifh regiments who were employed in the fervice of Ruffia, efpoufed the caufe of their country. Some of the principal partizans of Ruffia were arrelled, and fentenced to be hanged.

Kofciuala exerted himfelf to the utmof to augment his army. He procured recruits among the peafants, and to infpire them with the more emulation, he adopted their drefs, ate with them, and diftributed rewards among fuch as appeared moft to merit encouragement. All his attempts to infpire the lower orders of the Poles with the ardour of patriotifm were, however, unavailing. A mutual diffruit prevailed between the nobles and the peafants, and this was fomented by the arts of Stanillaus and the other partizans of Rueffiz.

The emprels had fent into Peland two of her beft generals, Suvaroff and terem for fome tine Kofciufko fucceeded in preventing the junstion of thefe generals,
and feveral engajements took place betrieen the Ruffians and patriots, in warch the former were generally fucceistial. At length, on the $4^{\text {th }}$ of Ociober the fate of Poland was decicied by a langumary contliet between Kofciufo and Ferlen, at Miacieyovitch, a fmall iown of Little Poland, about 60 miles from Warfaw. The talents, the valour, and defperation of Kofciusko, could not prevent the Poles from jielding to fuperior numbers. Almoit the whole of his army was either cut in pieces, or compelled to furrender at defcretion, and the hero himfelf, covered with wounds, fell fenfelefs on the field of battle, and was made prifoner.

The fmall number that efcaped fled to Warfaw, and Final difflut themfelves up in the fuburb of Praga. Hithermenterthey were purfued by Suvaroff, who immediately laid ment if Poo fiege to the fuburb, and prepared to carry it by florm. and. On the 2d of November, the brutal Suvaroff gave the aflault, and having made himfelf naifter of the place, put to the fword both the foldiers and the peaceable inhabitants, without dittinclion of age or fex. It is computed that 20,000 perfons fell victims to the favage ferocity of the Ruffian general ; and, covered with the blood of the flaughtered inhabitants, the barbarian entered Warfaw in triumph.
Thus terminated the feeble refiftance of the Polifa patriots. The partition of the remaining provinces was foon effected, and Stanillaus Auguftus, who had long enjoyed merely the fhadow of royalty, and had degraded himfelf by becoming the inffrument of Ruffian ufurpation, retired to Grodno, there to pals the remainder of his days oa a penfion granted him by the empref:
1795. On the 18 th of February, a treaty of defer- An. rims. five alliance between the emprefs of Ruffia and his Britannic majefty was figned at St Peterfburgh. The oftenfible object of this treaty was to maintain the general tranquillity of Europe, and more efpecially of the north; and by it Rulfia agreed to furnifh Great Britain with 10,000 infantry and 2000 horie in cafe of invafion; while Great Britain was, under fimilar circumflances, to "end her imperial majefty a fquadron confifting of twe fhips of 74 guns, fix of 60 , and four of 50 , with a complement of 4560 men . On the 18 th March was figned the act by which the duchies of Courland and Semigallia, together with the circle of Pilten, all which had lately belonged to the duke of Courland, but had long retained only the fhadow of independence, fubmitted themfelves to the Ruffian dominion.
In this year there took place between the courts of Difpule St Peterfburgh and Stockbolm, a difpute which threat-with Sree ened to terminate in a war. Guftavus III. had been af- ${ }^{\text {den. }}$ faffinated by Ankerftroem at a mafquerade, on the 15 th March 1791, ald the young king Guttavus Adolphus being fill a minor, the duke of Sudermania, his uncle, had been appointed regent of the kingdom. The regent had determived to effict a marriage between his nephew and a princefs of the houfe of Mecklenburg; but Catharive publicly declared that the late king had betrothed his fon to one of her granddaughters. The milunderfarding hence originating, was increafed ts the rude and indecorous behaviour of the baron Vun Euciherg, the Ruffian charge des afaires at Stockho'm, and matters feemed tending to an open rupture; when in 1796, a French eniglant named Curifin eficted a reconciliation, and Gencral budkerg, the baren's uncie, was

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Rusis fent as anvanudor to Stockholm fom the Ruflian court. In onfequence of this reconcillation, the youn, king, atte $A . d$ by the regent, and a numero = train of Syedi h c curtie s, fet out on a vifit to St Peterburgh, where they arrived on the 24 th of Ausult, and an intervie's touk place between the empre's, and her royal wilitors, for the purpole oi finally a jufting the projected matrimonial alliance. Guflaves Adolphus was much pleared with the apyearance of the grand duchefs Alexandra; but informed the emprefs, that by the fundanental laws of Sireden he could not fign the marriage contreel before the princefs had abjured the Creek religion; and as neither the folicitations nor the Hatteries of Catharine could presail on the young monarch to depart from the received cuftom of his country, the negociation e:: led, and the next day Guftaves and his retinue quitted St Peierlburgh.

The lat tranfaction of importance in the reign of Catharine was her invafion of the Perfian territoies, undertaken for the purpofe of acquiring certain pofteffions on the fares of the C.fifian. A Puffian army entered Dagheilan, and made iffelf mafter of Derbent, but was afterwards defeated by the Perfians under Aga Mahmed.

The death of the emprefs took place, as we have elfewhere itated, on the gth of November of this year; and the grand duke Paul Petrovitch afcended the thrune under the title of Paul I.
A.n. 1;95.

Paul Petrovich had attained his $42 d$ year before the duath of his mether placed him on the imperial throne; tut for many years before ber death, be had lived in a fate of comparative obfeurity and retirement, and had a.pparently been confidered by the emprefs as incapable of taking any active part in the admin tration of affairs. It is weil krown that Catharine never admited him to cny participation of power, and kept him in a flate of the moft abject an 1 m rtifying feraration from court, and in almoft total ignorance of the alfiirs of the emgire. Although by his birth he was generalifimo of the armies, prefident of the admiralty, and gra: d admiral of the Baltic, he was never permitted to head even a regiment, and was interdicted from vifining the fleet at Cronfadt. From thefe circumfances it is evident that the emprefs eitl) r had conceived fome jealouly of her fon, or fav in him fme mental in becillisy, that appeared to her to dilquali'y him for tie ardunnis concerns of government. There is li le dubt. fom the circumftances which diftinguibhed tis f? it reign, th t Catharine had been chiefly influe ced' in her treatme t of the grand duke, by the latter en $r$, on. Thare were certairly times at which Fajl difrlayed evident marks of infanity, though be oce finully gave prorfs of a ger.erous and tender difpofition, and even of i... telle etual vigour.

It is gener.lly believed that, a flort tim to ee I. r death, Catharine committed to Plato Zuhoff, her laf fawourite, a declaration of her will, adere"d intle fente, defiring that Paul fould be paffe over i the furecflion, and that on 'er death the grand drke Alex. ander thould sfend the vacant throne. Ac foon as

 \&t Peterfburch, where Pau! occuld ally refded, but meeting the grand duke oa the ro : te, efter a fh it
\& s. XV'III. Part I.
explanation, delivered un the imporiant co cument. Pall, c'ja, ned wi ha his zeal and byalty, rewarlod the lite farou ite, by permitting him to retain the walth and howours which had been lraped on him by hit miftrefs, while a general and rapid difperfion foon to k place among the other adherents of the late fovereign. On the day following the death of his mother, Paul made his ${ }^{\text {pablic entry into St Petenfurgh, amidit the }}$ acclamations of all ranks of people.

One of the firt meafures adupted by the new empe- $\sin ^{2}$ is is $i$. ror excited conliderable furprife, and divided the opi-neratu: I':nions of the public with refpect to the motives by which ter III. it had been fuggefled; fome attributing it to his refpeet fer the memory of his late father ; others to a culpable rellection on that of his mother. lie ordered the re mains of Peter III. to be removed from the fepulchre in which they had been depofited in the church of $S$. Alexander Nefski, and caufed them to lie in flate for three weeks, while they were watched night and day by the only two remaining confpirators who had affifted at his affalfination. After this dreadful mark of his juftice or the murderers of his father (furely more terrible to the guilty naind than death itfelf), he configned the aflies to the fepulchre of Cath rine II. in the cathedral of St Peter aud St Paul, oblizing the affafins to walk in the $\Gamma$.oceffion as clidef mourners.

Few political events of any importance marked the reign of Paul previocs to the year 1-93, when, in confrquence of a treaty between $P$ tul and the emperor of Germany, a Ruffian army of 45,200 men under Fieldmarftal Suvaroff, joined the imperialits in the Auftrian territorics in Italy. The progrefs of Suvazoff, his fuccefles over Moreau, and his fin 1 recal by his mafter, have already bee. r-lated in the article Fe.ince, from $4)^{8}$ to 505.

In 1799, Paul cnteres into a treaty of cffenfive and An 1799. decolive alliance with his Britannic majelty. This 163 treaty was figned at St Peterfburgh on the 22d of June, Treaty of having been preceded by a provifion: 1 treaty between tweon Ruf. the $f$ me powers at the end of the year 1798. By the fia a:d Eriprovifional treaty it had been fiphated that Paul thould trin. allift the king of Pruffia, if the latter could be perfuaded to join his arms to the allied powers againft Tran e, wh $45,000 \mathrm{men}$; and that the hing of Great Britain it. ould $\Gamma$ cy to Rufiaa furfidy of 55,0001 . Sterli er per mon h; a 2 in cafe the $k:$ of Pruffic nowid re wle to join the orvition, the fame number of troups, in co fideration of the fame fubfidy, fhould be emploged as or afon might require, to affit the common caure. I. $t$ e new tre. $y$, the empero: of licfia, ialtead of the 4500 trow engaged to fumifh $17,-93$, with the n.c fir: tillery, to be employed in an expedition again.? II . . ! ; a dh-e s.ged to f milh ix mhipe, five fir\&a:ce, 'id two tr-i nits, for $t^{\prime}$ = purp ic of tranfp $r^{r}$ in 1 is-is dir \& army from Britain to the cont.e: . In confi thion of thefe fuce rs, the court of Lai jon cegazed te alvonce to Ruirir a fullety of
 10. A.riz for hec: ences of e puip ing the flect ; 2 d alier the frr: if t we mo dos had elap led from fuch equipmeti. $10 \cdots$ a further fubfdy of 19,6421 . 1cs. ferling pe. S. . fol ! ig as the fleet Chould renain under the command of this Britannic maj=? $\because$.

It. confeque.ce of dis treaty, a lic .. sect : i ied 3 D

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reuser. that of Britain in Yarmouth roads, and took part in the unfortunate expedition to the coaft of Holland, undertaken in the fummer of 1799 . See Britain, $\mathrm{N}^{0} 1069$.

An. ISJi. 109 Faul's chal thrown into the greateft aflonillment by the sppearance Benge to the of a paragraph in the Hamburgh gazette of the 16th of sovereions of Eurupe January. The paragraph was dated from Peteriburgh the 30th December, 1800 , and is as follows.
"We learn from Peterfburgh, that the emperor of Ruffia, finding that the powsers of Europe cannot agree among themfelves, and being defirous to put an end to a war which las defolated it for it years paft, intends to point out a fpot, to which he will invite all the other fovereigns to repair and fight in fingle combat ; bringing with them as feconds and fquires, their rasft enlightened minititer, and their mott able generals, fuch as Msofrs Thugot, Pitt, Bernflorf, Bic. and that the emperor bimfelf propofes being attended by generals count de Pahlen and Klutofof: Whe know not if this report be worthy of credit ; h.wever, the thing appears not defiilute of fome foundation, and bears flrong marks of wliat he has been often taxed with."

This paragraph was immediately copied or tranflated into all the public papers, and it was ftrongly affirmed by many, that it was the compofition of Paul himelf. This has fince been confirmed by the poet Kolzebue, who was employed by the emperor of Ruffia to tranflate the original into German, for the exprefs purpofe of its being inferted in the Hamburgh gizette (ii).

This was not the only mark of mental derangement difplayed by the unhappy monarch. His favours and his difpleafure were alternately experienced by fome of his moft diftinguifhed courtiers and adherents. Staniflaus, the depoled king of Poland, partock by turns of his beneficence and his feverity; and at length on th:e death of that monarch, Paul alitited at his funcral, commanded in ferfon the guards that attended on the cercmony, and uncovering himfelf with the utmon emetion, faluted the coffin as it paffed. To the meniory of the hoary Suvaroff, who is faid to have failen a brokenliearted victim to the diftraction of his imperial mafter, be raife a coloffal fatue of bronze; and on the days when be reviered lis troops in the fquare where the ftatue had been ereited, he ufd to command them to march by in oren order, and fice the flatue. Notwithflanding the important fervice that had been rendered him by Zuboff, the emperor foon became difgufted with him ; fpoke of him to his friends with great afperity; at length denounced him as a defaulter to the imperial treafury of half a millica of rubles; and convinced of the jurfice of the allegation, procectled to fequeftrate the vaft effates which belonged to him and his two brothers.

Diven to difperation by fuch conduct, the fecond brother of the favourite one day walked up boldly to the emperor upon the parade, and with manly cloquence reprefented the injutice of his meafures. Pawl received him without anger, heard him without interruption, ard reltored the prorerty; but foon after be ordered Plato Zuboff to relide on his eftate. He furmed an adulterous connexion with Madame Chevalier, a French actrefs, through whole inthence Zuboff was again recalled to court, and rellored to favour.

It is not furprifing that thefe infances of folly and confiriacy caprice fhould alarm and difguft many of the nobles. formed In particular, Count P—, the goventor of St Peterf azanit the burgh, a fon of the celebrated general P-Pwho to eminently diftinguihed linfelf in the lat Turkıf war, Pince Y -, with fome other men of rank, entered into a confederacy with Zuboff, to prevent the final ruin of their country, by removing the prefent emperor. In their conferences, which were managed with great prodence and difcretion, it was refolved that Paul hould die, and the day of the feltival called Maflainza, the eleventh of March O. S. Alould be the day for executing the awful deed. At the time of this confederacy, the emperir and his family rcided in the new palace of St Michael, an enormous quadrangular pile flanding at the bottom of the fummer gardens. As Paul was anxious to inhabit this palace as foon after he was crowned as pcfible, the mafons, carpenters, and various artificers, toiled with incredible labour by day and by torch light, under the fultry fun of the fummer, and in all the feverity of a polar winter, and in three years this enormous and magnificent falric was completed. The whole is moated round, and when the flranger furveys its baflions of granite, and numerous draw tridgce, he is naturally led to cutclude, that it was intended for the laft afylum of a prince at war with his fubjects. Thofe who have feen its mafly walls, and the capaciournefs and variety of its chambes, will eafily admit that an aft of violuce might be committed in one reom, and not be heard by thofe who occupy the adjoining one; and that a mafiacre might be perpetrated at one end, and not known at the other. Paul took poffefion of this palace as a place of frength, and beheld it with rapture, becaufe his imperial mother had never c:en feen it, While his family were here, by every act of tendernef, endeavouring to foothe the terrible perturbation of his mind, there were not wanting thofe who excrted every flratagem to inflame and increafe it. Thefe people were conftantly infinuating that every band was armed againft him. With this impreffion, which added fuel to his burning brain, he ordered a fecret flaircafe to be confructed,
(H) This paragraph is fuch a curious morceas of witty infanity, that we flall here give the original French, as writen by Paul himfelf, and rublifhed by Kotzebue, in his accuunt of his exile into Siberia. "On apprend de Peterßours, que l'Empereur de Ruflie, voyant que les pu:fiances de l'Europe ne pouvoient s'accorder entr' elles, et v wlant mettre fin a une guerre qui la defoleit depuis onze ans, vouloit propofer un lieu ou il inviteroit tous les zutres $S$ suverains de fe rendre et y combattre en champ clos, ayant avec cux pour écuyer juge de camp et heros des armes leurs miniftres les plus éclairés et les generaux les plus babiles, tels, que M. M. Thugot, Pitt, Bernflorff ; lui meme fe propofant de prendre avec lui les generaux C. de Pahlen et Khutofof. On ne Ccait fion doit y ajouter foix; toute fois la chofe ne paroit pas deftituée de fondement, en portant l'empreinte de ce dont il a fouvens été taxé."

Rufit. Atucted, which, leading from his own chamber, pafied under a falle thove in the antr-room, and led by a finall door to the terrace.
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I: was the cultom of the emperor to fleep in an apart-Inisatiani-
nation. ment next to the emprefs's, upon a fopha, in his regimentals and boots, whitt the grand dake and duchels, and the reft of the imperial family, were lodged at various dutances, in apartments below the flory which he occupied. On the 10th March, 1851, the day preceding the fatal night, whether Paul's apprelienfion, or anonymous in tormation, fuggeited the idea, is not known, but conceiving tisat a form was ready to burtil upon him, he fent to Count P——, the governor of the city, one of the noblemen who had refoived oa his deftruction: I am informed, P-_ iaid the emperor, that there is a confiracy on foot ashint me, do you think it neceflay to take any precaution ? The count, without betraying the leaftemotion, rellied, Sire, do not fuffer luch apprehenfions to hauat your mind ; if there were any combinatims forming againll y ur majerty's perton, I am fere I thould be acquainted with it. Then I am fatisfied, fiid the emperor, and the governor wi htrew. Befure Paul retired to reit, hic, beyond his uftal caftom, exrelled the mott teader folisitude for the empeefs and iis chil re:n, kiffed them with all the warmth of farewell fondnels, and remained with them for a confiderabie time. He afterwards vified the centinels at their different pofts, and then retired to his charaber. Soon after the emperor had retired, the priard that was always placed at his chamber d or was, by fome pretext, changed by the officers who had the command for the night, and who were ergage 1 in the confpuracy. One man oaly remained. This was a huffor whom the emperor hat honsured with parlicular marks of attention, and who always flept at night in the antichamber, at his fovereign's bed-room door. This faithfal foldier it was found impofible to remove, except by force, which at that time the confpiratore did not think proper to employ. Sileace now reigned throughout the palace, difturbed oniy by the pacing of the centine.'s, or by the diftant murmurs of the Neva; and only a fey Atraggling lights were to be feen, irregularly gleaming through the windows of the palace. In the dead of the night, Z ——, and his frierids, amounting to eight or nine perfons, pafied the drawbridge, afcended the ftaircafe that led to the empercr's apartments, and met with no oppofition till ticy reached the antichamber, where the faitifal huffir, asakened by the noife, chailenged them, and prefented bis fufee. Though they mut have admired the brave fidelity of the guard, neither time nor circumftances would admit of an act of generofity, which might have endangered their whale plan of operations. Z-_ drew his faore, and cut the poor fellow down. In the mean time l'aul, roufed by the unufual bufte, fpening from his couch. At this moment the whole party rufled into his chamher. The unhappy fovercizn anticipating their defign, at firftendeavoured to entrench himfelf behind the chairs and tables; but foon recovering fome flare of his natural courage, he affumed a high tone, $t$ Id them they were his prifoners, and required them to furrender. Finding that they fixed their eyes tleadily and fiercely upon him, and continued to advance, he implored them to fpare his life, declared his willingnefs inftantly to retinquift tise feentre, and to ascept of any terms which

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they might dictate. He even offered to make them Rufi princes, and to confer on them orders and eftates. Regardlels, alike of his threats and promifes, they now began to prels on him, when he made a convulive effort to reach the vindow, but friled in the attempt ; and, indeed, had he fucceeded in his endeavour to efcape that way, the heinght from the window to the ground was fo great, that the expedient nould probably have only put a more fpeedy perived to his exittence. As the contipirators drew him back, he gralped a chair, with ulich l.c knocked down one of the .. itant, and a delperate conllica now took phace. So great was the noile, that mutwithandi. of the many whils, and duubie fulding co rs hat diviued Pawl's apaments foom thule of the omprefis, flee was dilleubed, and began to cell for heclp, when a voice whifpered in her ear, commanding her to $r$ main quict, and threatening that if the uttered anothes werd, Bic diould indlantly be put to icenth.

Paul was now mating lis laft titurbie, when the prisce I- Atruck him on the temple will his fift, and 1:id him proftrate on the flo r . Kecencuing frons the blow, the whapty monarch again implured lis life. At this moment the heart of one of the corapinaters iclented, and he was obferved to licfitate at.d icmule, vicun a young lhoverin, who was one of the party, exclainied, Whe have pertit the Rubicon; if we fpare his lite, we Chall, befoce the fetiry of to-mortov:'s lun, Lecome his vietims ; ca fins i: g which he touk of his fah, turned it twise round the raked ieck of the emperor, and giving one end to Z.—.-. himfelf drew the other, till the ctjeat of their atach explicd *.

The affafins 1 ctired from the palice nitheut the lean moleflation, and returned to their refpeclive humes. As foon as the dreadiul cataftrophe was difcovered, medical :Affifance was called in, in the hepe of reforing what miskt te only fuficuded animation; but thefe atiempts proved fruitifs. At feven oclock on the morning of the 12 th, the intulligence of the death of Paul, and the acceffion of the grand duke Alex.ander were amoneed to the capital. By cight o'elck the priscipal notility had paid their humage to the ness emperor, in the chapel of the winter palace; and tie great officers of fate being affembled, Alexander was folemnly proclaimed cmperor of thl the Ruffias. The empcror prefented himfelf at the parade on horfcback, and was hailed by the troops with loud and cordial acelamations.

The emperor Alcxander was in his 2 th $^{\text {th }}$ year when A he afcended the throne, and from his amiable difpefition had acquired the love and refpect of all his fubjeets. The firlit meafure which he adopted, his proci-mation, and his firft imperial orders, fil tended to encourage and confirm the confidence will which the people beheld him afeend the throne of lis forefathers. He folemnly promifed to tread in the fteps of Catharine II. : he allowed every one to drefs according to their own fancy; cwonerated the inhabitants of the capital from the trouble and duty of alighting from their carriages on the approach of the imperial family; difniffed the court advorate, who was taiverfally and juitly detefted ; fuppreficd the fecret inquifition that had become the foourge of the country; reltored to the lenate its former authority; fit at liberly the flate prifoncrs, and recelled from siberia feveral of the exiles. He even extended his merey to the affifins of the late emperor. Z:boff was ordered not to approach the i:merial refi-

Rufiza. dence, and the governor of the cily was transferred to Riga.

It is not eafy to explain the motives that induced Alexander to forego that vengeance which juftice feem--1 to deanand on the heads of his father's affaffins. It has been attributed by one of his panegyrits to a forlorn and melancholy conviction that the murderers had been prompted to commit the bloody deed, folely by a regard for the falvation of the empire. This conviction might have induced the young monarch to diminifh the weight of that puniffment which piety and juffice called on him to inllict, but can fcarcely account for his total forbearance.

The emperor Alexander, on his acceffion to the throne, appeared defirous to cultivate the friendthip of the neighbouring fates, and efpecially that of Great Britain. Fis late father, among other projects, had procured himfelf to be elected grand matter of the knights of Malta, and had laid claim to the fovereignty of that iland. This claim, which had nearly produeed a rupture between the courts of Londen and St Peteriburgh, Alexander confented to abandon, though he exprefied a uin to be elected grand mafter of the order, by the free fuffrages of the knights. In the mean time a confederacy had been formed among the northern powers of Europe, with a viev to oppofe the Britifh claim to the fovereignty of the feas; but by the fpirited interference of the Britih court, eipecially with the cabinet of St Peteriburgh, the good underflanding between Britain and the northern ftates was re-enablifhed, and the ernbargo which had been laid on Britifh veffels in the Ruffian ports was taken off.

On the 19th of June, Alexander caufed to be pub1:hied the following circular letter, fhowing his difpofition to be on terms of amity with the French republic. "All the relations of policy, commerce, and correfpondence with France, which were interrupted, in confequence of, the revolution in that country, have not yet Leen re-eltablufied in their full extent; but as at the irelent moment negociations are going on to effect a reconciliation with that po er by every means confiltent with the dignity of the emperer and the interefts of his teople, his majefly has been pleafed to charge his miniiters to apprize his fureign ambaffadors and agents, that he is willing to renew the ufual courle of connection with the government, and that the conferences refpectiag that object are in fuil activity. In the fituation in which this matter Rayds, therefore, it is no longer proper that the ambaffacors of his imperial majelly fhould continue to obferve any diftance towards the ambaffadors of the French government."

Early in the fome month there was figned at St Peterßurgh, a treaty of amity, commerce, and navigation, between Ruffia and Sweden, to continue for 12 years, by w.lich Sweden was allowed to import into Ruffia, alum, falt herrings, and falt, on the payment of oneh: If of the duties then exacted, and into Rufian Finland the produce of Swedifl Finland, duty free; while the importation from Ruffia into Sweden, of hemn, linen, and tallow, was allowed at one-half of the exitting duties, and of linfeed at two thirds. The moft iemarkable part of this treaty was the recognition, by the court of St l'eterfburgh, of the northern confedericy, whilh the amicable adjuatment with Dritan appeared t, beve done away.

The commerce of Ruilia had now recovered its fur mer fplendour. The exports from the city of Riga alone for the year ending in July 1801, amounted to 6,770,638 rubles; and of thefc exports, England alone Profperous imported to the value of $2,500,853$ rubles. Atate of 1 be
On the 25 th of March the definitive treaty of peace between the belligerent ${ }^{A n}$. 1802. powers of Europe, by one material article of which the ${ }_{\text {Rufia }}^{177}$ illands of Malia, Gozo and Comimo, were to be reftor- rantees the ed to the knights of St John of Jerufalem, under the fovereignty protection and guarantee of France, Great Britain, Au- of Matita to Atria, Spain, Rulfia, and Pruffia; and his Sicilian majefty of the Johighs was invited to furnilh 2000 nuen, natives of his flates, to of Jerifaferve in garrifons at the different fortrefles of the faidlem. iflands, for one year after their reftitution to the knights, or until they flould be replaced by a force deemed fufficient by the guarantceing powers. Some time atier the conclufion of this treaty, difputes arofe among the contracting porress selative to the fovereignty of Malta, which the emperer of Ruflia infited fhculd be yielded to Naples, otherwife he weuld not undertake to guaranice the order, and would feparate from it the priories of Ruffia. The refult of thele difputes is well known, as they afforded a reafon for rencwing the bloody conteft which has fo long defolated the face of Europe.

During the fhort interval of peace that was enjoyed p:udint reby Europe, the emperor of Ruffia made feveral prudent gulations of regulations in the internal adminiftration of his empire. Ale emperor On the 12 th of September 1801 , a manifefto had been ${ }^{\text {Alexands } r 0}$ publifked, proclaiming the union of Georgia or Ruffian Grufinia with the empire, and on the ift April 1802, Alexander fent a deputation to eftablifh the new government at Teflis, the capital of the province. This deputation was received by the natives with enthufiaftic joy, efpecially as they brought back the image of St Nina, which their prince Wachtang at his death had left at Mofo. On the 28 th May, the emperor wrote a letter to the chamberlain Wittoffoff, prefident of the commifion for ameliorating the condition of the poor of St Peterflurgh, in which he recommended the commiffion to follow the example of a fimilar eftablithment at Hamburgh, in felecting proper objects for their charitable bequefs, preferring the humble and induftrious pauper to the idle and flatdy beggar. He alfo offered confideraile premiums to perfons who fhould introduce any new or advantageous mode of agriculture, or who fhould bring to perfection any old invention, open any new branch of commerce, eftablifa any new manufacture, or contrive any machine or procefs that might be ufeful in the arts.

Early in the year 1803 , the emperor fitted out at his $A n .18 e_{3}$. own expence, two vefiels for a voyage of difcovery round the world, under the commard of Captain Krucenftern. Thefe flips were provided with every receflary for accomplifhing the object of the voyage; and feveral men of eminonce for fience and literature, among whorn was Churchman the American aftronomer, volunteered their fervices on tbis occafion. The veffels failed in the latter end of 1803 , and about a year after, intelligence was received from M. Krucenfern, who was then lying at Kan:tillatka. They had touched at the Marguelas iflands, where thicy had found a Frencliman and an Enc ifbmen, who had been left there feveral years befote. The Englillman Lad completely forgetten bis

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 native language，and the Frenchman，wao had for fe－ sen years ipoken nothing but the language of the na－ tives，fearcely retained fulficient French to inform M． Krucenitern that he had made part of the crerv of an American vefiel which was wrecked on thofe coalts． The expedition was then preparing to fail for Japan， to carry thither M．de Rafannoff，who had been ap－ pointed ambalador extraordinary from the court of fuefia to that of Japan．In the beginning of 1804 ，the emperor eftablifhed a univerfity at Kharkof in Lithuania，for the cultivation and diffufion of the arts and fciences in that part of the Rulian empire，and Mr Fletcher Campbell，a Scots gentleman，was employed to procure mafters for this new inititution．Some time after，the emperor ordered that meteorological obfervations thould be regularly made at all the univerfities and public fchools，and the relults publithed．It appears that at the end of this year the fums allotted by the fuffiain government，for defraying the expences of thele inflitutions amounted to $2,149,213$ rubles，befides a gift of nearly 60,000 rubles towards 15 r erecting the new univerfity．
Emancipa－

Rufin．
About this time an imperial ukafe was publifhed， granting to the Jews a complete emancipation from the flackles under which that devoted people had long groaned，and allowing them the privileges of educating their children in any of the fchools and univerfities of the empire，or eltablilhing fchools at their own expence．

For fome time the genius of difcord，which had again actuated the minds of the European fovereigns，failed to extend her balefill iafluence over the Ruffian em－ pire ；but it was fcarcely pulliole that the emperor fhould long remain an impartial fpectator of the renew－ ed difputes between his more porverful neighbours．An important change had，in the latter end of 1802 ，taken place in the miniltry of the empire；and Count Woronz－ off，brother to the late ambaffador at London，had been appointed great chancellor in chief of the depart－ ment of foreign affairs，with Prince Adam Tzartoriki for his allittant．How far this change in the councils of the empire influenced the political meafures of the court of St Peter！burgh，it is not eafy to determine ；but in the latter end of 1803 ，Alexander appeared to view with a jealous eye the prefumption and violence exercif－ ed by France among the German flates，and the en－ croachments which the appeared defirous of making on the freedom of the Baltic．Alexander bad offered his mediation between Great Britain and France，but with－ out effect，and both thefe parties ffrove to bring over the Ruflian emperor to their ailiance．Fiance feems to have held out to the ambition of Alexander the bait of a partition of the Turkih territories，the diinemoer－ ment of which had long been a favourite objject with his predeceffors．At length，however，the court of London prevailed，and the Ruflian ambafador，by his manler＇s orders，took leave of the Firft Confu！of the French republic，though without demonilrating any intentions of immediate hoftility．A new levy of 100,000 men was immediately ordered，to recruit the Ruffian army，and to prevent any jealoufy on the fide of Turkey，affurances were given to the Su lime Porte of the amicable inteations of iaflia to：vards that power．

On the istla April a treaty of concert was conclud－ est between Great Britpin and Rufla，in which the two governments agreed to alopt the molt efficacious meats
for forming a gencral league of the ftates of Furope，Rumin． to be directed againt the power of France．The ob＝jects of this league were undoubtedly of great import－${ }^{\text {Ano }}{ }_{183} 1805$ ance to the weliare of Europe；and it is deeply to be Trealy of regretied that the circumitances of the times did not ad－concert be－ mit of their being carried into execution．From the tween terms of the treaty，thefe objects appear to be，－Fiif，Gieat Bri－ The evacuation of the country of Hanover and the Refial． north of Germany．Secondly，The eftablihment of the independence of the republics of Helland and Switzer－ land．Thirdly，The re－ellabliflment of the king of Sardinia in Piedmont，with as lars e an augmentation of territory as circumflances would allow．Fourthly， The future fecurity of the kingdom of Naples，at：d the complete evacuation of Italy，the inand of Elba includ－ ed，by the French forces．Fifilily，The eftablitiment of an order of things in Europe，whicls might effeetually： guarantee the fecurity and independence of the different Itates，and prefent a folid barrier againft future ufurpa－ tion．

For the profecution of the great objects of this treaty， it was propofed by the firf article that an army of 500,000 men flould be levied；but in a fubfequent feparate ar－ ticle，the contracting parties，after obletving that it was more defirable than eafy to affemble fo large a force， agreed that the treaty fhould be carriod into execution as foon as it fhould be poffible to oppofe to France an active force oi 402,030 men．It was undertlood and ftipulated that thefe troops fhould be provided by the powers of the continent who thould become parties to the league，and fubfidies fhould be granted by Great Bri－ tain in the proportion of $1,250,0001$ ．Sterling for every 100,000 men，befides a confiderable additional fum for tise neceffery expence occa．foned in bringing them into the field．

About this time the occupation of Genoa by the ${ }^{18} 4$ French，on the pretence that that republic was too fee－Open witit． ble to fupport itfelf againf the attacks of Great Bri－France． tain，was communicated to the different courts of Eu－ rope，and excited in every quarter the higheft indigna－ tion．The emperor Alexander，in particular，was in－ cenfed at this new outrage．Such an open violation of thofe principles which were juflly regarded as effential to the general fafety，committed not only during the peace of the continent，but when pafiports had been delivered to his ambaflador，in order that a negociation might be commenced for the purpofe of providing for the permanent fecurity and rejofe of Europe，he confi－ dered as an indecent infult to his perfon and crown． He iffued immediate orders fir the recall of M．Noro fil．zoff；and the meffenger difpatched upon this occa－ fion was commended to repair with the utmoft diligence to Perlin．MI．Novofiltzoff had not yet lelt that city； he immediately therefore returned his paliports to the Pruflian minilter of fate，Baron de Hardenberg，and at the lane time delivered，by order of his court，a memo－ rial explanatory of the ohject of his milfinn，and of the circumfances which had led to its terminttion．

It fated that the emperor bad，in compliance with the willics of his Brilannic majefly，fent his ambaffador to Bonal arte，to meet the pacific overtures whichi he had made to the court of London ：that the e iffic difa－ greement between Ruffia and France might lave placed infurmountable obiflacles in the way of a nep cid＇m for peace by a Ruflian miniter；but th．t 1fs ita eriel

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majenty of Ruffia did not for a moment hefitate to pa!s over all perfonal difpleafure, and all the ufual formalities ; that he had declared he would receive the paffports only on condition that his miniter fhould enter directly upon a negociation with the chief of the French government, without acknowledging the new title which he had affumed; and that Bonaparte flould give explicit affurances that he was flill animated by the fame wilh for a general peace, which he had appeared to thew in his letter to his Britannic majelty ; that after his Pruffian majefly had tranfinitted the pofitive anfwer of the court of the Thuilleries, that it perlevered in the iniention fincerely to lond its hand to a pacific negotiation, the emperor had accepted the paffports; but that by a frefh tranfgreffion of the moft folemin treaties, the union of the Ligurian republic with France had been effected; that this event of itfelf, the circumftances which had accompanied it, the formalities witich had been employed to haften the execution of it, the moment wi,ich had been chofen to carty the fame iato exccution, lad formed an aggregate which mult terminate the factifices which the emperor would have made at the prefing requeft of Great Britain, and in the hope of reiloring tranquillity to Eurone by the means of negotiation.

The recall of the Ruffian envoy appeared to te the fignal of hootiliticson the part of RuTlia and Auftria againft France. Thefe hoftilities may be faid to have commenced and terminated in the autunin of this year. The military operations that diftinguithed this fhort but bloody confliet, the rapid fucceffes of the French, the capitulation of Ulm on the 17 th of OAtober, the occupation of Vienna by the French on the 12 !h of the fame month, and the fanguinary battic of Aufterlitz on the 27 th of November, have been already noticed under France, $N^{0} 532-555$, and are frefl in the memory of our readers. The confequences of thefe difaftrous events were, firt a ceffation of hoftilitiss, and at length a treaty of firm alliance between lluflia and France.

Before Alexander finally fooped to the imperial eagles of Napoleon, however, he was determined to make one more effort to preferve his independence. The Ruflian envoy at Paris, d'Ouhril, had haftily concluded a preliminary treaty of teace betwicen his mafter and the emperor of the French, which he figned at Paris on the 8 th of July 1806, and inflantly fet out for St Peterburgh to poocure the ralification of his mafter. The terms of this convention were laid before the privy council by Alexander; but they appeared fo derogatory to the interefts of Ruffia, that thie emperor refufed them his fanction, and declared that the counfellor of ftate, d'Oubril, when he figned the convention, had not only departed from the inftructions he had reccived, but had acted directly contrary to the fenfe and intention of the commiffion with which he had been intrufted. His im erial majeftv, however, fik ified his willingnefs to renew the negociations for peace, but only on fuch terms as werc c infiftent with the dignity of his crown, and the interelts of his empire.
In the mean time, the king of Pruffia began, when it was too late, to fee the folly and imprudence of the neutrality which he had fo long maintained, and he at length prepared to oppofe his now feeble effrts to the gro ing power of France. He brought together in the fumme: of this year, on army of at leaft 200,000 men,
near Weimar and Jena, while the French myriads af Rumfa. fembled in Franconia, and on the frontiers of Saxony. Previous to the commencement of hoftilities, his Pruffian majelty iflued a fipiried manifelto, in which he explained his motives for abandoning his plan of neutrality, and appeated to Europe for the juffice of his caufe. The king of Prufla entered into an alliance with the emperor Alexander, and with the king of Sweder, andit was expected, that thefe united forces would at len h burl the tyrant of Europe from his throne, or at leaft compel him to lifien to quitable terms of pacification. Thefe expectations werc, however, niferably dilappointed. The lame extraordinary fuccefs was fill to attend the arms of France, and the north of Europe was aydin contenmed to fubmit in filerice to her yokc.

On the 1 3th Oftober, the Prufians receive! a dreadful chack at the battle of Jema, where, according to the Frencin accounts, their io.s amotnted to 20,000 in killed and wounded, and above 30,000 prifoners; and on the 27 th of the fame month, Napulcori entered Berlin. While the French were thus fucceisful, the tieops of the emperor Alceande. entered Prufian Pcland, and took up their refidence at Wariaw; but they we:e foon attacked by the French under the grand duhe of berg *. * ATurat. On the 26 th of November, the cutpotis of the refpective armies fell in with each other, and a fkirmih touk place, in which the Ruffians were thrown into fome confufion, and a regiment of Kozaks was made prifoncrs. On the $28: 1$ the grand duke of Berg entered Warfaw with his cavalsy, and the Rulfians retreated acrofs the Viftula, burning the bridge over which they had paffed. On the 26th of December, a drcadtul engagement took place tetween the Ruffians, commanded by Gereral Bemingfen, and the French under generals Murat, Davouft and Lafines. The fcene of action was at Ottra!enka, about 60 miles from Warfaw, and the fighting continued for three days. The lofs was immenle on both fides, though the advantage appears to have teen on the fide of the French. According to French zccounts, the Ruffian army loft 12.000 men in killed and wourded, together with 80 pieces of cannon, and all its ammunition waggons, while the Ruffian account itates the lofs of the French at 5000 men.

In the begiming of February 1827 , the Ruffians ob- An. 15070 tained a partial advantage in the battle of Eylau. According to the account of this battle, given by General Battle of de Budberg, in a difpatch to the Marquis of Douglas, the Britilh ambaffador at St Peterfburgh, the Ruffian general Benningfen, after having fallen back, for the purpofe of choofing a pofition which he judged well adapted for manceuvring the troops under his command, drew up his army at Preuffilch Eylau. During four days fucceffively lis rear guard had to withftand feveral vigornus attacks; and on the 7 th of February at three o'clock in the aferroon, the battle became general through thie whole line of the main army. The conteit was deftuctive, and night came on before it could be decided. Ea:ly on the following morning, the Frencly renewed the attack, and the action was contefted with obfinacy on both fides, but toxards the evening of that day the affailants were repulfed, and the Rulfian general remained mafter of the field. In this action, Nazolcon commanded in perfon, having under hi An-

## $R$ U S

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## R $U$ is

Ruma．Fer ．．Daroat，Soult，Ney，anai Beflieres，at the head of the imperinl guards．The lofs of the Iitfians in that engagement，was by themfelves ftated at above 6000 men，while they eftimesed that of the French at nearly double that number．

I his was the lat imporiant lland made by the Ruffian $\mathrm{Ba} \cdot \mathrm{t}$ of
Friedand． mitien，at Gutlotad，and al Heilsterr，in all of which the French had the advanage，till at length o：a the 1 ith of June，the Rulfins appered in confiderable force on the lrid e of Friedland，whither the French army urder Nipoleon was advancing．At three in the morning，the report of camon was firll heard，and at this time Marthals Lafnes and Mortier were engaged with the Ru：fians．After various mancuvres，the Rus－ fian troops received a claeck，and filed off towards Kin－ ningberg．In the afternoon，the French army dre：up is order of battle，laving Marfhal Ney on the right， Lafnes in the centre；and Mortier on the left，while Victor commanded a corps de referve，contilting of the graards．At halt pait five the atlack began on the fide of Marfhal Ney；and notwithitanding the difierent movements of the Ruflians to effect a diverfion，the French foon carsied all before them．The lofs of the R．frians，according to the ufual expggerations of the French buhletitis，was eitimaied at from $10,0=0$ to 15,000 nien，and 25 of their generals were faid to bave been killed，wounded，or taken．In coniequence of this victory，the French became mafters of ail the country round Konnin fiberg，and Marfial Soult entered that ci－ ty in triumph．

Thus concluced the campaign in Germany，in which the Ruffians fuftained a lofs of at lealt 32,000 of thicir choice it troope．

While thefe military operations were going forward on the continent of Europe，the emilifaries of France were bufly cmployed at Contantinople，in exciung the di－ van to declare againft their ancient enemies．They at length fucceeded；and on the 30 th of December war with Ruffin was prochimed，and 28 regiments of janif－ faties iffembled under the command of the grand vizir ； but the difurbances which broke out in the latter end of May 18こっ，prevented any operations of importance from thaing place，and the pacification which was foun concluded between Rufia and 「rance，though it did not entirely put a flop to the war between the former power and Turkey，in fome meafure diminifled their honite preparations．

The defeats which the allied armics had fuffained in Pruffia and Poland，rendered peace，almoit on any terms，a defireable object；and Alexander found him－ f．if colifrained to meet，at leaf with the appearance of friendhip，the conqueror of his armies．Propofitions for an armiftice had boen made by the Pruffian seneral to the grand duke of Berg near Tilfit，and afier the battle of Friedland，the lhuffian prince Labanoff had a conference，on fimilar views，with the prince of Neuf－ chatel，foon after which an armilfice was concluded be－ tween the French and Ruffians．Oa the 25 th of June
an amicable mecting took place on the river Nöemen，Reináa． between the emperors of France and Ruffia，and adjoin－ ing apartments werc fitted up for the reception of both courts in the towa of Thlitit．This conitrained fricud－ hhip was foon afier comecited by the treaty of Tilit， concludd betweea the emperor of the French on the one part，and the emperor of liuffia and the king of Prufiat on the otlicr，on the $7^{\text {th }}$ and 12 ih of July in this year．

The conclufion of the treaty of Tilfit was notified to Rutture the ccurt of Lo don on the iff of Augult by M．Alo－wth Bri－ peus，miniliter plenipotentialy from the emperor oftain． Ruffis；and at the fame time a propolal was made from his imperial majeliy for mediating a peace be－ tween France and Britain．This mediation，however， was declined on tie part of Great Britain，until his Bri－ tannic majelly fluuld be made acquainted with the fit－ pulations of the treaty of Tillit，and ihould find them fuch as might afford him a jut loope of the attainment of a fecure and honourable peace．This declining of the mediation of Rufia was no doubt expected by the court of St Peiculurgh ；but it ferved as a pretext for binding more clofely the alliance becween that power and France，by breaking off her connection with Creat Britain．Accor lingly，in October，Lord Granville Le－ vefon Gower，who had fucceeded the Marquis of Doug． las as Britith envoy，rcccived a note from the govern－ ment，intimating tiat，as a Britifh amb：fiador，he could be no longer received at the court of St Peteifurgh， which he thercfore foon after quited．An embargo was laid on all Britith veffels in the ports of Ruffia， and it was peremptorily reguired by Napoleon and Alex－ ander，that Sseden thould abandon her alliance with Great Britain．

In additional ground of complaint againf the Britifh count was furnithed by the attack on Copenhagen，and the feizure of the Dinih fleet in the beginning of Sep－ tember；and though Lord Gower had attempted to juf－ tify thefe meafures on the plea of anticipating the French in the fame tran：action，the emperor of Ruflia exprefied，in the warmelt terms，his indignation at what he called an unjuit attack on a neural power．A con－ fiderabie Ruflian fleet joined the French，but the com－ bined fquadrons were compelled to feck for flhelter in the Tagis，where they remained blocked up by the Britin；and another fleet of 15 fail of the line that proceeded up the Meditcrranean，and adranced as far as Triefte，fhared a finilar fate（ 1 ）．

On the 2Gth of October the empcror of Rufia publifi－ ed a declaration，notifying to the powers of Europe that he had broken off all communication letween his empire and Great Bitain，until the conclution of a peace be－ tween this power and France．In a counter－declara－ tion，publiftied at London on the $1=$ th of December， his Britannic majefly repels the acculations of Ruffia， while he regrets the interruption of the friendly inter－ courfe between that power and Britain．His majelty juftifics his own conduct，and declares，that when the oppoltunity for peace betwcen Great Britain and liuflia
flall
（1）By the unfortunate convention of Cintra，concluded on the $3^{d}$ of September 1808 ，the Ruffian fleet in the Tagus was furrendered to the Britif，to be beld as a depofit，till fix months after the figning of a definitive treaty of peace．

## $R_{2}$ U $\left.S 400\right] \quad$ R U S

 fied, if Rulliz thanll manifent a difpofition to return to her ancient feeling of friendithip towards Great Briait 1, to a juit confideration of her own thue inierelts, and to a fenfe oi her own dignity as an ind.pacalent nati a.

An. IS=S.
11
Rencued negociations with Eritain.

In O.tober 1 SO8, a meeting took pace at E. $\mathrm{r}_{\text {arth }}$ between the emperors of France and Rullia, and a letter was drawn up under their fiznatuse, addrefied to his Britannic majelty. The object of this letter was, to induce the king of Great Britain to enter into negociations for a general peace, and with that view it was difpatched by Count Romanzoff, the Ruffan mini...er at Erfurth, to Mir Canning the Bitifft fecretary of fate for foreign atfiurs. As this letter, and the oticial note of the Britifh government in anfwer to it, fupply two very impostant documents in the later hiftory of the prefent war, we flall here introduce them. The letter of the trio emperors is as fullows.
"Sirc. - The prefent circumftances of Europe have broustis us trgether at Erfurth. Our firf thought is to yield to the with and the wants of every pcople, and to leek, in a fpeedy pacification with your majenty, the mot efizacious remedy for the iniferies which opprefs all nations. lie make known to your majefty our fincere defire in this refpect by the prefent letter.
"The long and bloody war which has tom the continent is abancloned, wi hout the pofibility of being renewed. Many changes have taken place in Europe; many flates lave been overthrown. The caufe is to be fon: $d$ in the Itate of agitation and mifery in which the fla $n$ tion of maritime commerce has placed the greateft 1ations. Still greater changes may yet take place, and all of them contrary to the policy of the Englift nation. Peace, then, is at once the intereft of the continent, and that of the people of Great Bitain.
" We unite in cntreating your majefty to liften to the voice of hus anity, filencing that of the paffions; to feek, with the intention of arriving at that object, to conciliate all interefts, and by that means to preferve all the puwers which exin, and fo enfure the happinels of Fur pe and of this generation, at the head of which Providence has placed us."
(Signed) Alexandir.-Nipoleon.
In anfier to this letter the following official note, figned by Mr Secretary Canning, was difpatched to Erfurth; and as the imperial correfpondents refufed to accede to the requiftions it contained, all hopes of prefent accommodatic were nt at end.
"The king has uiaformly dec' red his readinefs and defre to enter into negociations for a general peace, on torms confiftent with the honour of his m. jefty's crown, rift ficeli:y to lif orgegemen ts, and with the permareht iopoic ind fority of Europe. His majelly reyeals th t cie lat tion.
" If the corditi $n$ of the continent be one of agitatio's ‥d of Tretchednefs; if many flates live been cverth.swn, an:d $n$ ore are 11 menaced with hecrfion; it is a cullitation to the king to refle ह, thit no part of the co:sulti ns which have been alocaly expetienced, or ft, fe tich are threatented f or the fultre, can be in -ny de"ree imput ble to his mrinty. The kirg is in withing to ack ove lige that ill fuch dreadful cl is es are $\mathrm{i}^{\text {i }} \mathrm{Ced}$ contrary to the policy of Gieat BriNin.
"If!. bie if. much mifery is t. Lefuindi.. I' c ff onati- of cmmercial intecourle, althou h his majeity camot be cxpected to hear, with unqualified regiet, that the fy li. derifed for the deflrinion of the cummere of his fu jucie las recoled upon its a thes, or its inffrumen.s,,$t$ it is neither in the difpolition of his majetly, nor in the charaller of the people over whom lie reigns, to rejoice in the privations and umhappinefs even of the nations which are combined agninit him. His majefly anxioufly defires the termination of the fifferings of the continent.
"The var in which his majefly is engaged, was entered into by his majelly for the immediate object of national fafety. It has been prulonged only becaule no fecure and honourable means of terminating it have hitherto been afforded by his enemies.
"But in the progref's of a war, begun for felf-defence, new obligations have been impofed upon his majefly, in behalf of powers whom the aggreftions of a common enemy have compelled to make common caufe with his majefty, or who have folicited his majefty's affiftance and fupport in the vindication of their national independence.
"The interefts of the crown of Portugal and of his Sicilian majelly are confided to his majefty's fiendllip and protection.
" With the king of Sweden his majefty is connected by the ties of the clofett alliance, and by ttipulations which sulite their counfels for peace as well as for war.
"To Spain his majefty is not yet bound by any formal inftrument; but his majefly has, is the face of the world, contracted wi.h that nation erigagements not lefs facred, and not lefs binding, upon his majefty's mind, than the molt folemn treaties.
" His majeily, therefore, affumes that, in an overture made to his majel.y for entering into negociations for a general peace, the relations fubfilting between his majefty and the Spanith monarchy have been diltinctly taken into confideration ; and that the goverument acting in the name of his Catholic majefty, Ferdinand V1I. is underftood to be a party to any negociation in which his majefty is invited to engage."

Whe denand of concurrence in the views of France War wi end Ruftia made on Sweden was formally repeated in a Sweden declaration of the emperor Alewander, publifhed at St Peterfburgh on the soth Februaty in this year. In this declaration his imperial majefty intimated to the ling of Siweden, that he was making preparations to invade lis territorics; but that he was ready to change the meafure, he was about to take, to meafures of precaution only, if Sweden would, without delay, join Ruffia and Denmark in thutting the Baltic againft Great Britain, until the conclufion of a maritime peace. He profefied tlat nothing could be more painnal to him, than to fee a rupture take place between Sweden and Ruffia; but that his Swedith majefty had it ftill in his power to as id this event, by refolving without delay, to adopt that courfe which could al ne preferve ftrict union and perfeef liarmony between the two flates.

The king of Sweden, however, determined to abice by the meafures which he had for fome time purfucd, and to :accede to the terms of the comention which had juit been concluded between lim and the hing of Grewt Brituin Lat confequence of this detersination, a Ruf-

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fian ammy et te col Fit lend in the begimni.g of March, under the command of General Buxhovden, and adsanced as in,t İelliogfors, which was occupied by a fingle battalian ot a swedlh regiment. This fmall force reticed in.o thic fortrols of Sweabory, where they maintainced themiolves with great bravely thll the tyth of A. iI, when they were obliged to capitu ate. The lois of U is tortref., though incoifiderable in iifelf, fo highly e ged the hing of Sweden, th at he difmitied the naval a d allitary commanders who bad been conicerned in tie ca, itulation.

O: the $2-t h$ of $A_{\text {ril }}$, fome flight adrantage was gain d over t:e Rultians n-ar Rivolax, by the Siwedith am, soct e Ge: eral Count Klinfor ; but this was only a part-i gleam of ficcels. The Rulizans foon overran : Fub.t all Finland, took poffeltion of Wafa, old and new $\mathrm{Calle}^{3}, \mathrm{y}$, at d reduced under fubjection the whole prorince of which V.ala is the capital. The exmy of Fchd-mar!hal Klinfor, which originally confinied of $I \sigma, 222 r e_{b} u^{*} \ldots r s$, and many boars, was, by the end of the camp ign, reduced to little more then ocoo men. The Ruffan troops were faid to heve committed great exceffes, in con'equence of which the king of Sweden addrefid the fol owing letter to the emperor of Rufina.
" Honour and huaranity crjoin me to make the molt firciole re ontrances to your imperial majeity againft the ramerlefs cruclies and the it ju!tive committed by the Rutlian troops in Swedifi Finland. Thefe proceedings are too well krion and confirmed, to require from me any p oof of their reality; for the blood of the ill-fated victims ftill cries aloud for vengeance againft the abettors of fich enormitics. Let not your imperial majeity's heart be intenfible to the reprefentations which I find $m$ lelf compelled to make to you, in the name of my fai h.fu' fu-jects in Ein'rod. But what is the object of this war, as uniult as it is unnatural? It is not I fuppoie to excite the trongeft averfion for the Ruffian rame? Is it cininal in my fubjects in Finland not to have fuffered themfelves to be feduced from their allegiance by promiles as falle as the principles on which teey are founded? Does it become a fovereign to make loyaly a crime? I conjure your imperial majetty to pul a fop to the calamities and horrors of a war which cannot fail to bring down on your own perfon and government the curfes of divine Providence. Half of ney domi :ons in Finland are already delivered by my brave Finnifh troops ; your majefty's fleet is flut $u_{1}$, in Baltic port, without the hope of ever getting out, any otherwife than as a conqueft ; your flotilla of gallies has recently fuft ined a very fevere defeat, and my troops are at this moment landing in Finland, to reinforce thofe who will point out to them the road to honour and to elozy."

> "Head-quarters, Sept. 7. 1808."
> (Signed) "Gustavus Adolphls."
> Yck. XVIll. Part II.

The king of Sweden cuatinued to fewd reini cormens to his armies in Fiolar d, tat no adrantn es of dry d.atportarice were obtained, ar it the Ruffions itill reinno in polfeftion of a great I it oi that province. It w=o us pected that the Iite depaition of Gu lavus Adopl , and the elevation of his ut cle, the d..ke of Siud sth...ni., to the Swediin throne, would have roduced a consige of meafures; but it appears that hoitilities between the Swedes and Ruffians heve not yet terminaced, though nothing of moment has lately been aitempted iy cithor party.

Vie have now brought to a conclufion the liforical part of this article, in which we have taken a comprehenfive riew of the principal military and politics in if actions of Rufta, from the eltablifhment ot it e mota cliy under Ruric, to the prefent year 18 og . The willas: power of Alesander, fo much weakened in the batiles of Aufterlitz, of Eylau, and of Friedland, feems not to have recovered that vigour by which it was dittinghifhed at the commencement of his reign. The boafted fuco rs which he has been fo lung expected to tend to his imperial ally Napoleon, have not reached the banks of the Danube ; but the concentration of the Ruffian ferces in Puilh Galicia, Thews that Alexander is preparing to Share in the fpoil of Aatria, now once more on the point of fubjugation to the haughty power of France. The fanguinary batle of ASerm, is ught on the prain of the Marchfield, on the 21ft, 22d, and 22 d of May, though it was funpufed to have raaliied to e exertions of Lon parte, had evidently fo much westicied the inferior forces of the Aultri ns, tl at they could ao little more than act on the defe five, end e trench themfelves betreen Vienna and Preiburgs. If the afflicting inteliigence that is juft pu lihhed, of a feco:d battle on the 5 th and 6 th of July, in whic.) the French gained a complete vietory, be correct, the fite of Auftria is decided; and the dimemberment of her territories will probably be the refult of her intrepid but unarailing oppofition to th:e ambitious view of Napoleon (k.)
In rur remasks on the pelitical and civil geossaphy Ext ut of Rufia, we thall begin with the populaticn. To thate? गV ati n this with any degrec of accur..cy, in on cmpire for ex- if the Ru.. tenfive, and where the inhabitants are, in many pl ces, fo thinly feattered, is almoit impofible. It is n t furprifing, therefore, that the accounts given by different writers are extremely various. The population has been common?'y flated at ahout $25,000,000$, befo e the la.t particion of Poland; whi a by this event the erypire vas fu:p fed to have , i about $5.000,0=0$ of ithabitants, its whole popetation has been elt mated at $30, \sim 00,000$. According to an conumeration taken fevecal tincs by voremmett during the 1 Sth centirv, the proul tie fal ally in reafed from $14,-\infty 2, \sim=$ ? to $30,000,202$. Il=s, the uumber of people wits, 3 E
(k) There is every reafon to believe that the camp: in botie the Irench and Aullians is at an end. When this fheel was put 10 prefs, the 25 th, $26 t h, 2 ;$ th, and 20 th $\mid 11$ tiss of the French army on the Danube bad ar-
 renewed at Wagram on the 6th; that in bnth thefe aetion $t^{\circ} \mathrm{C} \mathcal{A}_{1}$. i = werc Adfeated with grea lofs; that on the IIth the ronteft lad again begun near Zaym, but was tornats hy the arrival of an Auttria zeneral in the camp of N , poleon, and that on that day, an armitice for coie nonth was corcluded between the two empervis.
 the r"ar of the Auftriars, is probably the prelude to a peace, which ca. Satec y be ublai ed wit... it gro .al lic." , on the part of Aufria.

14,000,000
1742, $\quad 16,0 \mathrm{cc}, 000$
1762, $\quad 20,000,000$
$1,82, \quad 28,002,000$
1786 ,

30,000,000
rector, and has a fecretary under bim. The vice-chan- Ruffa. cellor of the empire is a nomber of this council. The poft of grand-chancellor is fometimes fuffered to remain vacant.

The cabinet, to which belongs the care of the forereign's private affairs or concerus, as likewife the reception of petitions, confifts generally of ten perfons, the high-ftewatd of the houfehuld, priyy counfellors, majorgenerals, and flate-counfellurs, with their feveral fubordinate officers and chanceries. It allo examines difpatches, p-fles accounts, \&ic. takes cognizance of the produce of filver mines, \&ic. Whoever is not fatisfied with a decifion of the fenate, may appeal by petition to the cabinet; and in this relpect it dues the office of a fupreme tribunal, in which the fovereign in perfon decides.

In extraordinary cafes it fometimes happens that a fpecial high court of juitice is appointed, not fubordinate to the fenate, but immediately under the fuvereign. The prefidents are ufually taken from the imperial col. leges and other eminent fations, and likewife from among the members of the fynod. Where the alleged offence is of an extremely heinous nature, the examina-Tcoke's tion is firft made by particular pertons appointed for ${ }^{V}$ eru, that purpofe, and the protocal is laid before the com- vo. 1 . mifioners for their judgements.

In number of titles the emperor of Ruffia rivals the Impenal proudelt monarchs of the eaft. In the reign of Catha-uties. rine II. the imperial titles, when written at length, ran thus :- " By the grace of God, Catharine II. emprel's and autocratrix of all the Rufiias, of Mofco, Kief, Vladimir, Novgorod ; tzarina of Kazan, tzarina of Aftra. khan, tzarina of Siberia, tzarina of the Tauridan Cberfonefe, lady of Pikove, and grand duchefs of Smolenfk; princefs of Ethonia, Livonia, Karelia, Tver, Yugoria, Permia, Viatka, Bulgaria, and other countries; lady and grand duchefs of Norgorod of the low country, of Tichernigof, Reazan, Pulotk, Roftof, Yaroflanl, Bielofero, Udoria, Obdoria, Kondia, Vitepß, MIfiflavl; fovereign of the whole northern region, and lady of the country of Iveria, of the Kartalinian and Grufinian tzars, and of the Kabardinian country, of the Tfener. kaffians, and of the mountain princes, and of others hereditary lady and fovereign.

We probably know very little of the amount of the Reverues Ruffian revenues. From the moft correct intelligence that Mr Tooke could procure, he has eftimated them at about $46,000,000$ of rubles, though it is probable that they amount to a much greater fum. Taking the ruble at an average value of four fhillings, according to Mr Tooke's directions, we may compute the revenue at about $10,000,0001$. fterling, all at the entire difpofal of the emperor. It does not appear that this revenue is diminifhed by any national debt.

The Ruflian empire appears to poffefs a very large army. difpofable armed force. The following eftimate made up from the reports of the different corps, inferted in the regifters of the college of war, will fhew the fate
(I) It is curious to remark how many people of a very advanced age dicd in Rufia during this year. Thus among the deaths are reckoned 1145 betwcen 95 and $100 ; 158$ between 100 and $105 ; 90$ between 105 and 110 ; 34 between 110 and $115 ; 36$ between 115 and $120 ; 15$ between 120 and $125 ; 5$ between 125 and 130 ; and 3 between 145 and 150 .

## R U S [ 403] R U S

Ruffas of the Rufian army at the beginning of the year $1795^{\circ}$

19 regiments of artillery,
II regiments of grenadiers, of 4075 men 7 each,
3 regiments of grenadiers, of 1000 to 3000$\}$ men each,
51 regiments of muketeers, compofed of 7 10 companies of muketeers, and two companies of grenadiers, each regiment being compofed of 2424 men,
7 regiments of mufketeers without grenadiers,
I regiment of muketeers, of 4 battalions 4143 men ,
New arquebufiers, fo called,
12 battalions of muketeers, of $1019 \mathrm{men}, 7$
3 battalions of muketeers, of 1475 men , 5
$4^{8}$ battalions infantry, in garrifon on the
frontiers, 10 in the country,
9 corps of chaffeurs of 4 battalions of 988$\}$
men each, 3992,
3 battalions of chaffeurs,
5 regiments of cuirafliers of 1106 and
1125 men ,
10 regiments of dragoons of 1882 men, two ?
with hulfars mounted,
8 regiments of carabineers of 1106 men, $\}$
eight do. of 988 men,
2 regiments of huffars of 1119 men, three ?
Squadrons of huffars, one do.
4 regiments of chafeurs of 1838 men,
5 regiments of light horfe of 1047 men,
6 regiments of cavalry of the Ukraine, of \}
1047 men,
I 6 regiments of regular Kozak cavalry,
Troops to guard the country,
In the new provinces acquired from Po
land in the firlt partition, fix brigades of 1819 men,
5 brigades of light horfe, of 1098 men,
four of infantry of 1447 , \&c. in all,
Invalids in garrifon,
Soldiers fons at fchool for fervice,
Troops to affift the commiffaries, \&c.
Total regular troops, 54 1,741
Irregular Kozak cavalry 21,625,
Irregular troops of the Don Kozaks,
\} 46,601
Cavalry all in actual fervice 24,976,
A great number of other irregular troops, all cavalry, as Kalmuks, Bafchkirs, \&c. not enrolled, but ready when called out, (they receive no pay), at leaft

100,000

The Ruffian regiments are ufually encamped from the end of May to the end of Auguf. The foldiers are allowed no ftraw in their tents, but each man lies on the bare and often wet ground. When he mounts guard, it is for a fortnight together ; but when he is taken ill, he is attended with the greateft care by the medical officers appointed by government. No expence is fpar-

2,722
Number of men in pay. 38,110
$51,04^{8}$

139,59 2

16,653
82,393
25,928
2,994
5,490
23,573
$16,35^{2}$

7,352
5,235
6,282
30,882
22,216

23,360

16,816
1,258
ed in providing hofpitals, for which purpofe large buildings have been conttucted in the priscipal towns, and a proper number of phyficians and lirgeons atiacised to each. Here the patients are fupplicd with medicines and diet fuited to the nature of their complaints. Sill, however, the Ruffian foldiers enter the hofpitals with reluctance, and leave them as foon as poffible.

Notwithitanding the great population of the Ruflian empire, it fometimes requires the utmoll ftretch of arbitrary power to raife levies for recruiting the army, as the lower orders of the people are more averle to the military profeffion in Ruilia than in alnooft any other country. This is the more extraordinary, as the pay is tolerably good, and they are furnithed in abundance with the neceffaries of life. It is true that leave of abfence can feldom be obtained, and each foldier is bound to ferve for 25 years. The dicipline is fevere, and the fubaltern officers may, on their own authori y, inilict punifhment on any private, to the extent of 20 lir 'es of a cane. While the foldiers remain in garrifon, they are generally not allowed to marry; but when permitted to marry, there is an extra allowance for their wives
and children *.
*Tooke"s
There is one abfurdity in the drefs of the Ruffian fol Cathediers, efpecially in that of the cfficers, which merits ${ }^{\prime \prime n}$, 11 . notice. Their waifts are fo pinched by the tightnefs of their clothes, and a leathern belt over the coal, as rouit certainly impede their refpiration, and otherwife affect their health + .

+ See Por-
Of the regular troops, the imperial fool guards areter's Trathe molt refpectable. Their uniform confits of a green cels. coat turned up with red, with white pantaloons, and very high caps or hats, furmounted with a black feather or tuft of hair. Of the other troops, the moit remarkable are the $K$ ozaks, which form the princıpal cavalry of the empire. Of thofe there are feveral varieties, but the moit flriking are the Donfky K z zks. The perfons, air, and appointments of thele troops feem completely at variance with thofe of the horfes on which they are mounted. The men are fierce and robuft, generally drefled in a blue jacket and pintaloons or loofe trowfers, with a black cap furmounted by a kind of red turban. They are dillinguifhed by furmidable whifkers, and are armed with a fabre, a brace of piftols, and a long fpear. Their horfes are mean in fhape, flouching in motion, and have every appearance of languor and debility. They are, however, extremely hardy and tractable; will travel incalculable journeys, and remain expofed, without inconvenience, to all the viciliiudes of the weather.

The navy of Ruffia is refpectable; but fince her rup- Nony ture with Great Britain, it has become nearly ufelefs. It generally confiits of feveral detached fleets, of which one belongs to the Baltic, and another to the Black fea; the former having its rendezvous at Cronffadt, the latter at Sevaftopol and Kherfon. There is alfo generally a fmall fquadron on the C fipian. In 1794 , the Laltic tieet confifed of 40 fhips of the line, and 15 frigates ; while that of the Black fca was compofed of 8 hips of the line, and 12 frigates. The Calpian fquadron confifts of three or four fmall frigates, and a fcw eorvettes. Befides thefe feets, there was lately at Odeffa in the Biack fea, a flotilla confifing of 25 vory large veffels, and 60 veftels of inferior fize, to ferve as tranfports for conveying troops. The Ruffians are faid to

Rullia. be averfe to a feafaring life, but the failurs are extremely brave. In point of neatnefs, the Fuflian thips are inferior to thofe of any other European nation.

As connected with the government of the empire, we thall here notice the coins, weights, and meafures, all of which are regulated by government.

The fandard according to which the value of the Ruffian coins is ufually eitimated, is the ruble; but as the value of this coin, with refpect to the money of other countrics, varies according to the courfe of exchange between thefe countries and Rufia, it is neceffary to take into account the value of the tuble as it jtands at any particular time. When Sir John Carr was in Ruffia in 1804, the ruble was worth only 25. 8d. of Englif money, and as the courfe of exchange between Great Britain and Ruflia is now againft the latter country, we may perhaps eltimate the iu'le at about 2s. Keepint this in viers, the following tatle by Mr Tooke will fhow the value of the Ruffian coins.
Gold.

| SImperial, Io rubles. |  |
| :---: | :---: |
| 2Half imperial, | 5 |
| (Ruble, | ICs coreeks. |
| Haif ruble, | - 9 |
| Guarter ruble, | 25 |
| Twenty-co cod piece, | 20 |
| Fifeen-copeck pitce, | 15 |
| Grievnik, | 10 |
| Five-copeck piece, |  |
| Petaki, | 5 |
| Grofch, | 2 |
| \{ Copick, | 1 |
| Derulka, | $\frac{7}{4}$ |
| (Polufika, | $\frac{4}{4}$ |

It is not eafy to compute the Ruffian wei,hts, according to the liandard of either avvirdupois or troy weight. The leaft Ruffian weight is calied folotnik, and weighs about 68 troy grains, or a litte more than one troy dram. Three folotniks make a $/ \cdot e$, and 32 lotes or 96 folotniks, a Ruflian pound. Thus the Rurf fian is to the troy pound, as 6528 is to 5760 . Fortyfive Ruffian pounds are equal to $3^{8}$ Hamburgh pourds. It is ufial in Ruffia to eftimate the parts of a pound by folotnike, and not by lotes; thus, any thing that weighs 7 lotes, is faid to weigh 27 folotniks.

A Ruffian po d weighs 40 Ruffien pounds, or $3^{8}, 10$ folotniks, and is hy Mr Tooke rechoned at 36 Englith pounds avoirdupois.
The neafures of Ruffia, as in other countries, may be divided into meafures of length and meafures of cayncity. The former are eafily eltimated in Englith meafure, as the Englifh foot was alopted hy Peter the Great, and is now the flandard for the whole empire. I- is alfo divided into 12 inclies, but ever: inch is divided into 10 lines, and each line into 10 fersulles. Twenty cight Englifh i ches make an arfhine, and thrce arfhines onc fajéne, or Ruffian fathom, cçual to 7 feet Englifh.
A. Re firizn verft is equal to zroo Enelifh feet; and a gengraph al mile contains 6 veifls, 475 lạ́nén, and $\$ .25$ arhines.

Superficial meaure is formetimes efimated by fquare verfls and fijénes, but more commonly by defizutines; each of which is equal to 2400 fiquare lajénes, or ${ }_{33} 7,6 \mathrm{co}$ Englifh fquare füt.

Of dry meafures of capacity, the fmallent is the gar. Ruffit, niza, ofinuka, or ofmutchka, which is a meafure ca- $\underbrace{\text { ars }}$ pable of holding 5 Ruffian pounds of dried rye, and is uied chiefly in mewfuring out corn for horfes. A polschetverick contains $614 \frac{1}{2}$ Paris cubic inches, or half a pood of died rye. A polofinina contains 8 poltchetveriks, or four tchetvericks. A tome of corn at Reval holds 5964 French cubic inches; at Klga, 6570 ; at Narva, 8172 ; and in Viborg it is equal to the weight of 6 pood. A lijga lof meafures 3285 French cubic inches, and is equal to 27 cans; and a laft is equal to 24 tonnes.

Of liquid meafure the vedro contains 610 French cubic inches, and is equal to 5 Riga cans; a kruthka or oflim is $\frac{1}{8}$, and a tchetverk $\frac{1}{4}$ of a vedro: a foff is about 60 French cubic inches; 19 vedro make I hoghteed, or 6 ankers, and 57 vedro amount to 1.52 Englifh gallons, each containing 233 Frerich cubic inches.

We have feen that in the earlier periods of Ruffian Law.. ${ }^{202}$ hiftory, the empire was regulated by no other laws than the will of the fovereign, as promulgated in his ubef/es; and that even the firit Ruffian code of lans, viz, thote publithed by 1 ann $I \mathrm{~F}$. in the 16 ih century, contain rather the arbitary orders of that monarch, than fuch regulations as might have been the refult of the deliberations of a nitional affembly. The code of Ivan was greatly improved by Alenci Mikhailovitch; but the late emprefs has the nerit of giving to the empire a new and rat onal code, chictly drawn up by her own hands. Of the precile nature of the laws cintainecesin this code very little is known, as all converfation on the lans of the empire is either forbidden, or is conficered as indelicale. It is nc indeed of much conequence to afcent:in the prefent exiling laws, as they are lutject-to continual allerations.

Ii fy75, the late enprefs made a complete new adouinimodellin of the i cusa! government is a formo gras fratt nof fitaplicity and uni romity. By that reglement flie jutue. divided the whole empire into governments, as we have already mentioned, flating over each, or where they ate of lef's extent, over two conigucus govemizents, a governor-general with very confiderable powes. Sne fubdivided each government into provinces and difrisis; and for the betier adaimifration of jutike, erected in them variou courls of law, civil, crinn', ! and conmercial, analogous to thofe which are found in other cumatres. She eltablifined likenife in ere.? tho vernment, if not in e ery province, a tibutal of cornfien.e, ahd in tvery ditirict a chamber fir the protection of orplans. Amidf to many wile in titutio s, a chamber for the adminitra ion of lier imperial me jefly's revenues vas not forgotem to be cftablifind in carh government, and a tribunal $f$ w lice in each dittrics. Thie duly on the governor general, who is not pro cily a judge, I ut the guardian of the lans, is to take c..e that the varions "in unais in bis governo $t$ dilchate $e$ their relpective duties, to protect the o puffel, io c. force the adn mitretion of the laws; of when a 7
 fentence, to dop we exerui in till he mols a m ment to the fenate, an! rio five her m, iany cownal l is ! is
 and, on the fromiers of the empire, tat tice proner number of troops be kept ap, and that they be atcontive to their duty.

## R U S

knout confifty prinsipally of a swhip, cempofed of a
su*is. menv diresions for the conducting of law uits in the different court, and the adminiltration of jutice, which do her majelly the highelt honour ; hut the general isant of morals, and what we call a fenfe of honour, in every order of men through this ratt empire, mait make the wifell regulations of litule avail. Rufia is perhaps the only nation in Europe where the law is not an incorsited prufefion. There are no feminatries where a P. t.im.: n.ay be educated. Any man who will pay the : : nf oftice may become an attome, and any man who c ? client may plead at the bar. The judges ar : more learnel than the pleaders. They are not quan fied for thicir offices by any kind of edunation, nor are they neceflarily cholen from thole who l.ave frequented courts, and been in the pr.ctice of pleading. A grneral, from a ince=oful or an e, ivocal camprign, may be inllantly pliced at the head $0^{\circ}$ a court of $j$ fisce; and in the al fence of the imos: ! court from S. Peteriburgh, the comma. dile f.ilicur in that cil?, whoever he may be, prelids ox fficis in the high court of juftie. The other coutts g ner: ily change their mreficents every year. Many inconveniencies malt arie from this fingular confitution; but fever, pertaps, than we are ant 10 imagine. The appoi tment to fo many interior governments makes thie RuPi n nobility acquatinted with the grofs of the ordinaty bufiness of law-courts; and a fatute or imperial edict is law in every cafe. The gre obtacles to the ad inimfation of $j$ tie ars the co traricty of the laws, and the venalitv of the judges. Fiom infe-ior to funerior courts there are two appeals; and in a great propottion of the caufes the reverfal of the fentence of the inferior cout fule Ets its indges to a heavy fine, unle/s thoy can. p- 'uce an ellst in full point in funmort of the'-decifon. Th's indeed they ferdom find any difficuly in doine ; for there is fear-ly a case fo fimple that edil?s $m^{-} y$ not $\dot{b e}$ found clear and precile for both rarties; and therefore $t$ = judses, faffb'e of their $\Gamma$ fety, are very feld a incorsutible. To the principle of honour, which often guides the conduct of judges, in other nat: ns, they are fich abfolute ftrangers, that on officer has been feen fitting in fiate and diltributing jutice from a bench to which he was chained by an iron collar round his neck, for having the div before been detected in conniving ot frogeling. This man fe.mie I no! to be shit met of the crime, nur did any one avo in his comp ny in the evening.

Fer crimes are capilal in Rutin ; mu der may be atoned for by naving a frm of mone: ; nay, the c vil macutrite ta' es 102 enenizance of murder, without havirsu revi uflv rescived infermation at the fist of fome i. .ivill $I_{s}$. Cri .. 's were nimifuat with torlure and
 a more mon in took place; and this the late 20t emacts confuel hy 1 w .

Tl: f anth: $\because s$ fir rimes of inferior maoni-
 of Si eria; a $d$ it rin of ofe.er nomt $t$. this


 F. f- m the it iomm: Ins of one of our lest tr whors in 205 Ruff 3.
The knout. The apparatus for inflicting the prntithment of l.c v.cosen hiandle about a foot long, ve. fitrong, aed bound tightly round with le ther, al:d having atzached to it a flout and weighty thong, lonoer tl an the lion dley and formed of a tapering ltrip of Wuffalo's hide, weit dried, and about $\frac{1}{4}$ inch thick, fatrened to the handle in the manner of a dail. Belides tuis, ho executioner i, furnflied with a pair of iron pacers for the pu. pof: of fitting the nole, and another irtt unent fha sed lik a round bruils, Atrongly ot wids ison t.e.h, for marking the forehead, or any wher pust of the boo $y$, accoadin? to the to ms of the intence.
'I us imblition of the pomilatent, in a cafe where i. was ecd diarly fevere, (viz. that of a fervant who ind
 ter.
"The peor watc". atiended hy part of the po "ee, has tear: Hked th in whe lisec: in order to frew
 his gilt. As boun a.11. , rof l ith a rived in fic of th. tero's, a cinde vis fomel, and prear ions n we for the in t..n. commenceron of the ex cut:on. A paper being read al ud in the leu's languase, which, r. . .e probobly w:.s an account of has crime and lentence; 'sc was \{peidily liripped of has cloa hs, leaving on his perfn only a juair of lonfe trowfers. It the mitatt of this flent groupe (and awtul indeed was their titer.ce) flood, firm and uelf lecured, a block of wood, a :out three feet high, having three cavites in the top, to receive the neck and arms. Being fully prepared for his dreadful punith :-nt, the unhappy man cafted himielf, repeating his en p-rdian pomila "ith the greatell devotion. The executiones then placed bins with his bseait to the board, ftrongly bisd: is him to it by the reck and the upper parts of his arms, paffirthe tope clace under the bend of boti kne. 'I', is b ved forward, the awfol moment .upit d'red. 'The firt it ke was ft:uck, and eacla re ited theh tore hee fleh trem ti.e bone. A fow feconds el afd 'ex can e. .t: ant is



 fenfelefs body of the wret-h ' m .

 him), a fiynal was made from the heed 1 its of : 1 . police, and the cririn. l us $s$ ribl a ? b the: \& e

 the heif of the lathin , he liad is \& :'om as 'un at life

 b ad. shim- I's affitlant held an in in poit like ado-s
 flack it with the utninth force, a id drave is pa: 'el



 havion und me: - Now nt.
". Y, will \& is it at ric ur had exhaofad. It her thm nts, the Alticc was nor ar calt . Werm ;

 fita H

Ruflia. ftrous curling irons, were inferted up the nofe of him whom I fuppofed dead (and indeed I only endured the latter part of the fight, from having imagined that thefe inflictions were directed to one already paft the fenfe of pain) ; the performer of this dreadful fentence, aided by his companion, actually tore each from his head in a way more fhocking than can be defcribed. The acutenefs of this laft torture, brought back fenfe to the torpid body :-What was my horror, to fee the writhings of the poor mangled creature; and my aftonifhment, as foon as he was unbound, to fee him rife by the affiftance of the men, and walk to a cart ready to return him to his prifon. From whence, if he did not die, he was immediately to be conveyed to Siberia, * Forter's there to labour for life. His loft ftrength fcemed to reTravelling vive every moment, and he fat in the velicle perfeetly Sketches, upright, being covered with his kaftan, which he himv. 21 felf held upon his fhoulders, talking very compofedly 206 Religiun. with thofe who accompanied him *.

The eftablifhed religion of Ruffia is that of the Greek church, which differs little from the Roman Catholic perfuafion, except in a few rites and ceremonies. The people are very ftrict in the obfervance of the external forms of worfhip, as attendance on mnfs, keeping numerous fafts, performance of domeftic devotions morning and evening, confeffion, receiving the facrament, \&c. To build churches is confidered as a meritorious act, and hence even the fmall towns abound in thefe religious edifices; and as, from the feverity of the winter, it is neceffary to beat the churches during that feafon, it is not uncommon to fee two cluurches in the fame churchyard; one ufed for winter, and the other for fummer worthip. The clergy are held in great honour; and every one meeting a prieft kiffes his hand, in return for which he receives his bleffing with the fign of the crofs. From the external ceremonies of the Greek church, we fhall felect thofe of baptifm, marriage, and burial.

As foon as a child is born, the prieft repairs to the chamber of the mother, and offers up a thank fiving for her and her infant. On the eighth day the child is carried to the church, and receives its name, in addition to which is given that of the faint to which the day is dedicated. Thirty-two days after this the purification of the mother takes place, after which fucceeds the baptifm itfeif. The child is dipped three times, and then immediately anointed on feveral parts of the body, and figned with the crofs. Seven days after unction, the body of the child is wathed, and its head is fhorn in the form of the crofs; and, in general, a little crofs of gold or other precious material, is fufpended from its neck.

The marriage ceremony in the Greek church confifts of three parts. The firt office is that of the efpoulals or betrothing. The parties pledge themfelves to be true to each olher, by the interchange of rings; and the prieft before whom the vows are made, prefents lighted tapers to the contractingr pair. The liturgy being faid, the prieft places the parties who come to be betrothed, before the door which leads into the functuary, while two ril ; are laid on the holy tablc. The prien makes the fign of the crofs three times on the heads of the betrothed couple; and then touching their foreheads with the lighted tapers, prefents one to each. Then follows the benediction, with a few flort prayers, after which
the prieft takes the rings, and gives one to the man, and the other to the woman, with a flort addrefs, which he repeats thrice to each, figns them on the forehead with the rings, and puts thele on the forefingers of their right hands. The efpoufed couple then exchange their rings, and after a long prayer from the prieft, are difmified.

The fecond rite is called the matrimonial coronation, as in this the bride and bridegroom are crowned, to indicate their triumph over all irregular defires. The betrothed parties enter the fanctuary with lighted tapers in their hands, the prieft preceding with the cenfor finging the nuptial pfalm, in which he is accompanied by the chorifters. After being affured of the inclination of each party to receive the other in wedlock, the prielt gives them the holy benediction, and after three invocations, takes the crowns, and places one on the head of the bridegroom, and the other on that of the biide. After this is read St Paul's epiftle on the duties of marriage, with fome other portions of Scripture, and feveral prayers. The cup is then brought, and bleffed by the prieft, who gives it thrice both to the bride and bridegroom, after which he takes them by the hand, and leads them in proceffion, attended by bridemen and maids, three times round a circular fpot, turning from welt to ealt. The crowns are now taken off their heads, and after proper addreffes, and a fhort prayer, the company congratulate the parties; thefe falute each other, and the ceremony of coronation is terminated by a holy difmiffion.

The third rite is called that of diffolving the crowns, and takes place on the eighth day. It confifts of little more than a prayer for the comfort and happinefs of the married pair, after which the bride is conducted to the bridegroom's houfe.

On the death of a perfon, after the ufual offices of Funerat clofing the eyes and mouth, and wafhing the body, arefervice. performed, the prieft is fent for to perfume the deceafed with incenfe, while prayers and hymns are faid and fung befide the corpfe. The body is watched for a longer or fhorter time, according to the rank of the deceated; and when all things ate ready for the interment, thofe relations who are to act as mourners and pall-bearers, are called together. Before the coffin is clofed, the ceremony of the kifs mult be performed, as the laft refpect paid to the body. The prieft firft, and then the relations and friends, take their farewel, by kiffing the body of the deceafed, or the coffin in which it is contained. The funeral fervice then begins with the prieft pouring his incenfe from the holy cenfer on the coffiri and the attendants, after which he gives the benediction, and the chorifters chant fuitable refponfes. The coffin is then carried into the church, the priefts preceding with a lighted taper, and the deacon with the cenfer. When the proceffion reaches the fanctuary, the body is fet down; the 91ft pfalm is fung, followed by feveral anthemas and prayers. The corpfe is then laid into the grave, while the funeral anthem to the Trinity is fung over it ; and the ceremony of fprinkling earth on the coffin, ufual in molt countries, is perform. ed. After this oil is poured from a lamp on the coffin, and inconfe again diffufed. The grave is next covered in, and the ceremony ends with a prayer to the Saviour for the reft and eternal happinefs of the deceafed.

Thofe who wifh for a more minute account of thefe

## $R$ U S [ 407 ]

Rufli. and other ceremonies of the Greek church, may confult Mr Kcr Porter's Travelling Sketches, vol. i. letters 8, 9 , and 10 .
210 Greek hierarchy.

211
The hierarchy of the Ruffians confifts of three metropolitans, feven archbihops, and 18 bilhops. We have feen that there was originally at the head of the chunch a patriarch, who poffefled all the power of the loman pope. This office was abolifhed by Pcter I. The whole number of ecclefiaftics belonging to the church of Ruffia, is computed at 67,900 , and the number of churches at 18.350 .

There are teveral monalleries and convents in the Ruffian empire, where the monks and nuns, as in Roman Catholic countries, lead a life of feclufion and indolence, though their inhabitants are not fubject to fuch fevere reftrictions as thofe of the Catholic perfuafion. The heads of the monafteries are called archimandrites, or hegumens, the former being nearly fynonymous with abbot, the latter with prior. The fuperior of a nunnery is called hegumena. The principal religious order is that of St Banl ; and the chief monafteries are thofe of St Alexander Nefsky at St Peterfburgh, and Divitchy at Mofco.

Formerly no religion, except the Greek, was tolerated in Ruffia; but, fince the reign of Peter I. all religions and fects are tolerated throughout the empire. It was indeed with great difficulty that Peter could be prevailed on to allorv the frec exercife of the Ruman Catholic religion; but this is now not only tolerated, but is dignified by the eftablifhment of Ruffian Catholic bihops. Even the defpifed Jews are permitted to hold their fynagogues, and the Mahometans their mofques.

The Ruflian language is a dialect of the ancient Gothic, and is extremely difficult of pronunciation by a fouthern European; though in the mouth of the politer Ruffians, it appears by no means deficient in melody. It is very difficult to acquire, as it abounds with extraordinary founds and numerous anomalics. The characters amount to at leaft 36 , fome of which refemble thofe of the Greek language, while others are peculiar to the Rufs. Among other fingularities there is one character to exprefs $/ \mathrm{ch}$, and another $\int \mathrm{sch}$, which latter found is faid to be fcarcely capable of enunciation, except by the moft barbarous of the Ruffian natives. See PhiloLOGY, $\mathrm{N}^{\text {© }} 220$.

Since the acceffion of the emperor Alexander, the literature of Rufia has undergone a material improvement. Incredible indeed, was the prefure of the rigorous genius-deftroying reftrictions and prohibitory edicts under the reign of Paul, of the ftate of whole mind, continually tormented with fufpicion, but in other refpects endowed with many good qualities, fo ftriking a picture has been drawn by Kotzebue, in The Mof Remarkable Year of his Lifc, of which a Ruffian tranllation has been publified. During that inaufpicious feafon, only a few plants fprang up hore and there in the garden of Ruffian literature, chiefly in Peterfburgh, and for the glorification of imperial inftitutions. Among thefe, for inftance, may be reckoned the Cabinet of Pe ter the Great, written in the Ruffian language by Jofeph Bieliajeu, under librarian to the Academy of Sciences, and fplendidly printed in 1800 , at the expence of the academy, in three large quarto volumes. It is intended to be a catalogne of the books, matural curiofities, works of art, medals, pictures, and other treafures,
which the academy founded by Peter the Great pofferfes; but it is to be fearcd, that this lift itfelf will fwell to a library, if the fucceeding parts fhould be written in the lame fpirit as the firti three. The firt volume contains only the relicks of Pcter the Great, with five plates, comprehending even the productions of his turning lathe, which are prelerved, as is well known, in a feparate apartment. The fecond volume gives fome, but extremely defective accounts of the Academic Library, in which there are 2964 Ruflian works (and among them not fewer than 305 Ruflian romances!) and 1350 MISS. ( 236 of them Chinele, and 410 relating to the hiftory of Puffia). In the thind volume, the cabinet of medals is illuitrated. It is really aftonilhing how many curiolities and exquifite works of art have from every part of Europe been collected in St Peterf. burgh, efpecially under the reign of Catharine II. What treafures of art and literature are to be found only in the imperial hermitage! Here, for initance, is the molt valuable and complete collection of ancient engraved gems, of which the celebrated collection of the duke of Orleans compofes only a fmall part. Here the libraries of Voltaire and Diderot are placed, containing their MSS, and manufcrlpt notes on the margins of the books. M. Von Kohler, a German, is the keeper of thefe trealures; and the antiquarian writings which he has publifleed in the French and German languages, fuf. ficiently prove him to be a proper perfon tor tuch an office. It is, however, an unfortunate circumftance for the reft of Europe, that it is difficult to learn what has been fwallowed up by thefe repofitories on the banks of the Neva. It is therefore to be lamented, that the filendid defcription of the Michaelowitzian palace has fince the death of Paul been difcontinued. From what Kotzebue has faid concerning it in the fecond volume of the account of his exile, one may guefs what immenle quantities of curiofities it contained. At prelent only three large engravings of the external views of the now deferted palace, are to be obtained at the price of 40 rubles. Of Gotfchiza too, the favourite relidence of Paul, and which the new emperor has prefented to the emprefs dowager, we have a view in fix large theets, engraved before the death of the late emperor, and giving us at leatt a genera! idea of the plan of the extenfive pleafure grounds, \&c.

There is no longer any doubt that the new univerfity of Dorpat, which has already coft the nobility of Eithonia and Livonia more than 100,000 subles, will at length be eilablified by authority. Several leatned men were invited from foreign countries to fill the profelfional chairs, ard fome of them had arrived in the begiming of 1802 . The military academy, which has likewife been erceted at Dorpat, has received great davour and fupport from the emperor. Full permillion is now again granted to vifit foreign fchoois and univerfities; and in confcquence, about 70 Livonians, Etthonians, and Courlanders, now profccute their ftudies at the univerfity of Jena; and proportionate numbers at the univerfities of Germany.

The brok-trade, which had been entirely annihilated, has for the moft part broken the iron tetters impofed by the licenfers; it is indeed a highly beneficial change, that no Tumandiow, and other Rutfian zealots, bit Germans, are appointed to examine German buoks. IIere, however, many thin;s atill require to be contect-
R.flia. eef. The new e. per :, notwithfanding !is almoft incredible activity, cannot at once difcover all the dbules and improper applications of fome of the lavs, nor by aэ emmenoil ukafe, open to every innoxious book - (as was the cafe with refpect to K'zebue's Mof Remarkaile Year) the gate that had been thut againt it by the licenfers. For Kotzebue's work would not heve been promitted to pafs, if the procurtor-general in St Pe'ertburgh had not 1.id a copy b .ore the emperor himelf, and reccived a particular wide in its favour. Another great impediment to literamere is, that all boot: s muft be imported by fera and ce-fequently duting the winter no new publications can be procured from abroad. The greateft difficulty in precuring books, however, arifes from the circumflance that a Fudiam $u k$ lye always remains in full force till it be exprefly repealed by another. Previous to the reign of Paul, the examination and licenfing of books was entraicis to the chief magiftrates of the refpective capitals; but Paul appointed inferior licenfers for that purpofe, and the fame regulation continues, unlefs altered by a particular ukefe. Under Paul, nothing was permitted to be printed in the large printing-office of Reval, excent advertifements, playbills, hymns for the Reval hymn book, :d the weekly newfpaper, the articles contained in which were fubjected to a frict previous exanitiation; and the fame retrictions continued to be enFirced in 1822 , trough re ugnant to the emperor's inte. tions, becaufe no crm.noï ukafe had been publifhed to doolifh them. A wine microhant in Reval was defirons of having fome tickets printed, for the purpofe of difir, guiftil.g his dificent forts of wine. At firt the lice:fer woul not permit any of the French wines to have their names printed, and when at laft he relented with refpeet to this point, the printing of the words St Uber's wine, and bijbap, a well known drink compoled 4. vine and oranges, was deemed by him quite inadmifthle, Reau.e St derotes finthip, and ought not to be wofaned by being ntixed to a wine bottle, and becaufe Windenotes an eccief. ical dignity, and of courfe

vinguan. A ne " fet wol of practical jurifprudence has lately val, an . Con effatilined a. St Peterilurgh. Here there are four p. 215 . prociors wh. give lectures on the law of nature and natio.", on the Romen law, in e hics, and on the hiftory c. Re:lia, bellles a couril of lectures on the commifion of ' $\therefore$ tion. A:l the lethares are in the Ruffian lans:3...

The Acalerny of Sciecees at St Peterfoursh have Formed tie $\mathrm{p}: \mathrm{n}$ of a whe for the manier of writi.g Quat-n words wih fireisn chanters, and for aign words with Rufien chara qers. This plan confilts of a vocaLulary. drawn up by a committee of the academy, and empofed of two alpabets, German and French, by means of whict the proper ortho ra, hy and pronmeciation -f word in the Pafian language are rendered intelligitle to forcigness.

For a fuller account of the language and li erature of
 Rutan Empirc, vol. iii. p. 572 . and his Lid Catlathine II. vol. iii. p. 394.
(0. te of fthe Not withfanding the yor wity of the court of St Pe. Ruffian te fluwh for dr matic e libitione, no idea was entc. In ge. tained of erecting a Fuff $m$ the tre in the e pital till the year 1756 . Feodor Wolch fo the fon of a meckerat
of Yarollav' had, in : 719 , erecied a the re is his native city, in comlaquence of the $d$, wht with which he had been in pired on witatfling he exaibilions of the German piavers at the capral. -iccordingly, when he returicd home, he fitted up a L.. "e ifo 11 m his tather's hof for a thutre, and paincedit in ouff; then muftering a fmall company, conkitiing of his fuar brothers and fume other young perfons he reprefentel fome imes the lacred pieces of the bihop Dimitri Roltoffichy, fometimes the tragediss of Sum rok of and Lemonuflot, which had jutt appe-red; and at other times, comedies and farses of his o:m compofition. The undertaking of Wolchof met with the greateft encou agement. Nut fatisfied with lavifhing applaufe upon him, the neighbouring nobility furnifhed him in 1750 with the requifite funds for ereating a puilic theatre, where money was taken for admiffion. The report of this novelly reached St Peterfburgh, and in 1752 the emprefs Elizabeth fent for Wolchof's company. He was placed, with feveral of his young actors, in the fchool of the cadets, to improve himfelf in the Rufian language, and in particular to practife declamation.

At length, in 1756 , the fiff Rufiran theatre was formally eflalithed by the exertions of Sumarokof, and the actors paid by the court. A German company appeared in 1757, but it was broken up by the arrival of an Italian opera. The opera B ffa formed in 1759 at Molco lad no beiter fucce?s; its failure was favourable to that which remained at St Peterfourgh, and which received fo much the more encouragement. - The fireworks difplayed on the ftage after the performance, afiorded great an ufement to the publio, and drew together more company than the mufic. At the coronation of the empreis Catharine 11. t.e Ruffian ccurt theatre accompanied her to Mofco, but foon retumed to St Pcterfburgh, where it has been fixed ever fince. The tafte for dramatic ex? ititions had at this period become fo general, that not or.1y the molt difinguifhed perfons of the court of the two capitals performed Ruffian flays, but Italian, Trench, German, and even Englith theatres aroi, and maintained their ground for a longer or flotter time. Cathatine the Great, defirous that the people flould I kewife particitate in this pleafure, ordered a fage to be ereced in the great fl-ce is the wood of Brumberg. There both the actors and the plays were perfectly adapted to the 1 -vlace that heard them. What will feem extraordinary is, tlat this perfurmance fometimes attracted inore diftivgrifhed amateurs; and it is perhaps the only theate wrere fectators have been feen in carriages of :cur and fix horics. $\mathrm{B}_{3}$. what is fill more furprifing is, to tee ctios en of bled as a reward for their talente, as was t.c c e in 1762, with the two brothers Fcodor and Gregory Wi? chof. The f rmer died the following year, in the it very young. His reputation as a great tricic and o mie actor will perhaps one day !ecrinidurably abate ; but the Ruffians will ever recellect wids gratitude thec he was the real founder of the Rufian lia e.

They wiil likewife remember the fervies ui Sanaaral: of as a tragic poet. He firft thowed of what the 12. Tian languare, before neglected, was fufeptible. Bum at Mufoo in 172\% of noble prents, he zealoully drooted limfelf to the tluc'y of the ancient clanic atit1 $s$ ard of the Fret ch po ts. This it was that rufed lis poel ic talch's. EYi canl: compofitions were all on

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n.atia. the fubject of love. His countrymen admised his fonge, and they were foon in the mouth of every one. Animated by this fuccels, Sumarakof publifhed by degrees his other poetical productions. Tragedies, comedies, pialms, operas, epitapls, madrigals, odes, enigmas, clegies, fatires; in a word, every fpecies of compofition that poetry is capable of producing, flowed abundantly from his pen, and filled not lefs than ten octavo volumes. His tragedy Choruf was the firft good play in the Ruffian language. It is written in Alexandrine verfes, in rhyme, like his other tragedies, as Hamlet, Sinaw, and Trumor, Arilona, Seruira, Ngaropolk, and Dimifa, the falfe Dimitri, \&cc.; and this firft performance fhewed, that in the plan, the plot, the character, and Ayle, he had taken Corneille, Racinc, and Voltaire, for his models. Though Sumarak of poffeffed no very brilliant genius, he had, however, a very happy talent of giving to his tragedies a certain originality, which diftinguilhed them from thofe of other nations. He acquired the unqualified approbation of his countrymen by the felection of his fubjects; almoft all of which ke took from the Ruffian hiftory, and by the energy and boldnefs which he gave to his characters. But his fuccefs rendered him fo haughty and fo vain, that he could not endure the mildeft criticifm. Jealous of the fame acquired by Lomonofof, another Ruflian poet, he fought every opportunity of difcouraging him ; and it was a great triumph to Sumarak of to obferve the: the public fcarcely noticed the firf dramatic effays of that writer, and that they were foon coalfigned to otiivion.

Sumarakof has likersife written a great number of comedies, in which the manner of Moliere is difcoverable. In fpite of their original and fometimes lew humout, they were not much liked. The priscipal are, the Rival Mother and her Daughter; the Imaginary Cuckold; the Malicious Man, \&ec. He las corapofed fome operas; among otherc, Cephalus and Procris, fet * Mrantbly to mufic by d'Araja, mafter of the imperial chapel, and Alagasine, reprefented for the firt time at St Peterfburgh during
vol. xxi. vol. xxi . p. 115

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fifteen fold: nor is Turkifh wheat, or maize unknown Rufiz in Taurida. Barley is a general production, and is converted into meal, as well as oats, of which a kind of porridge is compofed. Rice fucceeds well in the vicinity of Killear. Potatoes are unaccountably neglested, except in the nerth. This invaluable root bears the cold of Archangel, and yields from 30 to 50 fold. Flax and heinp form great objects of Ruflian cultivation. Madder, woad, and faffron, grow wild in the fouth. The hop is alfo cultivated, and is found wild near the Uralian chain, and ia Taurida. Tebacco has been produced fince the year 1763 , chiefly from Turkith and Perfian feed. In the gardens are cultivated cabbages (of which a great number is confumed in the form of four-krout), and other plants common in Europe. The government of Mofco produces abundance of excellent afparagu. and fugar-melens abound near the Don and the Volga. Large orchards are feen in the middle and fouthern parts of Ruffia, yet quantities of fruit are imported. What is called the Kire!ksoi apple often weigiss four pounds, is of an agreeable flavour, and will keep a long time. A tranfparent fort from China is alfo culivated, called the Nalivni, meiting and full of ju'ce. The culture of the vine has been attempted in the fouth, and will certainly fucceed in Taurida. Dees are not known in Siberia, but form an objeft of attention in the Uralian forefts, where proprietors carry their hives to a confiderable height in large trees, and they are Cecured from the bear by ingenious con'rivances defcribed by Mr Tooke. Mulberry trees and filk are not unknown in the fouth of European Ruffia, crpecially in Taurida ard the Krimea. In the Krimea, camels are very commonly ufed for draught, a cuftome which feems peculiar to that province.

The arts in Rufita have received very confiderable State oi d improvement withis the latt 50 years. Moft of the arts. aris that rollate to luxuries are exercifed at St Petersburgh, to luch an extent, and in fuch perfection, as to render it unneceffary to import thefe articles from other colniries. The chicf works of this kind are thofe of guid and filver goods. He:e are 4t RuTian and 139 foreign, confequently in all $18_{3}$ workers in gold, tilver, and trinkets, as maffers; and befides them feveral gilders and filverers. The pomp of the court, and the luxury of the rich and great, have rendered a taile in works of this kind fo common, and carried the art itfelf to fuch a pitch, that the mont extraordinary objects of it are here to be met with. Several of them are wrought in a fort of manufactory; in one fet of premifes are all the various workmen and fhops for completing the moit elegant devices, ornamental and ufeful, from the rough bullion. Even the embroiderers in gold and filver, though they are not formed into a company, are yet pretty numerous. The works they produce are finified in fo ligh a tafte, that quantities of them are fold in the fhops that deal in Englifa or French goods, and to which they are not inferior. This bufinefs, which is a perpetual fource of profit to a great number of widows and young women of flender incomes, forms a ferong obiection to the declamations againt luxury. Perlaps the remadk is not unneceffiary, that nam laces and embride $y$ cal not here be ufed, even on the flage. Next to thefe may be ranged the hoot of milliners, whio are moftly of French defcent; and here, as in Paris, together with their induftry, are endowed with a variety of

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asirceable sad profitable talents. Their numbers are diaty inereafing; and the freater their multitude, the better they feem to thrive. Their works are neat, elegant, ant modih ; but they certainly bear an eno:tnous price: a marchande des modes, if the underftand her bufinefs, is fure to make a fortune. The gencrality of them, : Ir completing this mim, retun to their native coun,
The cencirakeres trade is likewife here in a flour:ining fate. The great concerns in which this bulinefs is cartied on in all its patis, from the fimple fecew to the flaeft rasiaih; the folidity and durability, the elegance .... the tafte of the carriages they turn out, the multitud' of workmen, and, in ihort, the large fums of money that are employed in them, which would otheraife be Sent abroad for thefe velicles, render this bufine'f one of the moft confequentiat of the refidence. In the judgemant of connoiffers, and by the experience of fuch is ufe them, the carriages made bere yield in nothing to thole of Paris or Iondion; and in the making of varrifh the Rultians have inp:oned upon the Englifh: unly in point of durability the carriages are faid to fall fliort of thofe built by the famous workmen of the laftmetationed ration ; and the want of dry timber is given as the crute of this failure. With all thefe advantages, and notwithfanding the grat difference in price, increaled by the high duties of thofe carriages which come from abroad, yct thefe are veally imported to a great amount. The Ruffians have, hovever, fuccueded in appropriating the greater part of thic bufinefs to themtelves. The flape of their carriages is in the height of the mode ; the varnifh is exaelle:t, and the whole outward arpearance elegant and gricefui; but for durability, the repulation of the Rufian workmen is inferior to that of the Germans fettled in this country. This cenfure applics to all the Rufian works of art ; their eatcrior is not to be found fault with, but they are deficient in the folidity whict fo much recon mends the work of foreign artifs. The Ruffians lave indeed to contend vith : 2 chfacle that renders it almolt imponible for them to employ fo mach time, latour, and expence, on ti.eir work, as are requilite for bri:ging it to the utmort perfegion. This is the general prejudice in favour of Pritith commoditics, which is nowhere carried to fo ligh a pitch as it was in Rufiia a few ycars ago. The Rufiian wo:kman, therefors, naturally endeavours to inpufe his work upon the cuftomer for foreign: and where this is not praticable, he is obliged to Cacribice follidity to outward appearance, for which alone lie can expect to be paid. A chariot made by a Geram coaccimaher will coff 6 co or 700 rubi-s, triece:s a Rulian chariot can be lought for half the money; and it fometimes hapents that the latter is even mere dural'e than the forme:

Jinary is cxervifed as well by the Ruffans as the Germans; but thic ca'met-naker's art, in which the Frice of the ingeruity far excecds the safue of the matari. \&s, is at prefent folely cor ned to fome foreignets, amony whom the Germans difinguifh thenfelves to their honour. 'The artits' of that nation accafiotally execute mafterpieces, made at intervals of leifurc under the influence of genius and tafte, and for which they find a ready fale in the refidence of a great and magnifi cent court. Thus, not long fince ore of thefe made a cabinet, which for invitution, talle, and excellency of
workmanhii., exceeted every thing that liad ever been feen in that way. The price of this piece of art was $\eta \geqslant 00$ ruisl:s; and the artift declared, that with thirs fium he flould not be paid for the years of application he had beflowed upon it. Another monument of German ingeruity is preferved in the Academy of Sciences, in the model of a bridge afier a defign of the itate counfellor Von Gerhard. This bridge, which would be tise moit magnificent work of the kind, if the poffibility of its contruction could be proved, confifts of 11 arches, a drawbridge for letting veffels pafs, diffinet raifed footways, landing places, «̌c. The beanty of the model, and the excellency of its execution, leave every thing of the fort very far behind. The emprefs Catharine II. rewarded the arificer with a prefent of 4000 rubles; and he was ever after employed by the court.

Both thefe works of art liave been, however, far excelled by a writing de $\mathbb{R}$ made by Ricentgen, a native of Neusicd, and a Moravian, who lised tiveral ycars in St Peterfburgh, and embellified the palaces of the emprefs and priacipal nobility with the aftonifhing productions of iis art. In this writing defk the gemius of the invertor las lavifhed its riches and its fertility in the greatel variety of compolitions: all fecms the work of inchantment. On opening this amazing defk, in front appears a beautiful group of bas-reliefs in bronze fuperbly gilt; which, ty the filghteft preflure on a fpring, vanifles avay, giving place to a magninicent writing-itat inlaid with gems. The fpace above this flat is devoed to the keeping of valuable papers or money. The bold hand that thould dare to invade this fpot would immediately be its own betrayer; for, at the leaft touch of the table part, the moit clarming firams of foft and plaintive mulic initandy begin to play upon the ear, the organ whence it procecds occupying the lower part of the deik behiid. Sereral fmall diawers for holding the matcrials for writing, \&c. likewife ftaxt forward by the preffure of their frriigs, and fhut again as quickly, without leaving behind a trace of their exillence. If we wenid change the tailc-part of the burcau into a reading dedk, from the upper rart a board fp:ings forward, from which, with incredible velocity, all the parts ci a commodious and well contrived reading aefk exparic, a:d the their froper places. The inventor offered this rare and atonifing piece to the cmpefs Catlen rine II. for $20,0=0$ rables; bit hie generculy thought that this fuan would be barely fufficient to pay for the workmanhip: fhe thercore recompenfed his talents with a fatther prefent of 5000 rubles. Her majefly prelented this matchiefs piece of art to the Acaderay of Sciences, in whofe urufcum it fill remains *.

- Tocke's

The Ruflian fi:ilh in architecture is evinced by the Catherine magnificent builnings which adora the city of St Peteif $I I$. vol i. burgh. and more efpecially by the Taur:da palace.p. ${ }^{\text {po }}$ Hicre is feen the largett ball of which we bave any account. This prodigious hall was built after the unaffillcd delien of Prince Potemkin, and unites to a fublime concertion, all the grazes of fruificd talle. It is fupported hy double rows of coloffal doric pillars, opening on one fide into a vaft pavilion, which forms the emferor's winter garden. This garden is very exienfive, the trees chiefly orange, of an enormous fize, funk in the earth in their tubs, with fine mould covering the furface between them. The walks are gravelled; wind and undulate in a very celightful manner ; are nonlly turfed,

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Ruaiis. and lined with roles and other tlowers. The whole pavilion is lighted by lofty windows, and from the ceiling are fufpended feveral magnificent lollres of the richelt

+ Carr's
Nortbers Summer,
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Manufacbutce.
cut glafs. In the enormous ball of which this garden forms a part, Prince Poterakin gave the moff fumptuous entertainment ever recorded fince the days of Roman voluptuoufnefs + .

Among the Rufian manufacooies, the imperial eftablihments are fo much dittinguibed for the magnitude of their plan, and the richnefs and excellence of their produations, that they may enter into competition with the molt ceiebrated inflitutions of the fame kind in any other country. The tapellry manufactory, which weaves both hangings and carpeting, produces fuch excellent work, that better is not to be feen from the Gobelines in Paris. The circumflance that at prefent only native Rulfians are employed, enlances the value and curiofity of the eftablifhment. No where, perlaps, is the progrefs of the nation in civilization more ftriking to the Eoreigner than in the foacious and extenfive work rooms of this manufactory. The porcelain manufactory likewife entertains, excepting the modellers and arcanift, aone but Ruffian workner, amounting in all to the number of 400 , and produces ware that, for tafle of defign and beauty of execution, approaches near to their beft patterns. The clay was formeri! brought from the Ural, but at prefent it is procured from the Ukraine, and the quartz from the mountains of Olonetz. It is carried on entirely at the expence of government, to which it annually cofts 15,000 rubles in wages, and takes orders. But the price of the porcelain is high; and the general prejudice is not in favour of its durability. The Fayence manufaciory has hitherlo made only inefiequal attempts to drive out the queen's ware of England; but the neat and elegant chamber-floves made there, give it the confequence of a very uleful eltablifhment. Almof all the new built houfes are provided with the excellent work of this marufactory, and confiderable orders are executed for the provinces.

A bronze manufactory, which was eftablifhed for the wie of the conftruction of the Ifaak church, but works now for the court and private perfons, merits honeurable mention, on account of the neatnefs and tafte of its executions.

The ftone-cutting works of Peterhof are remarkable fur the mechanifm of their conftruction. All the inftruments, faws, turning lathes, cutting and polifing engines, are worked by water under the floor of the build. ing. Fifty workmen are here employed in working fureign, and efpecially Ruffian forts of itone, into Nabs, vafes, urns, boxes, columns, and other orhaments of various kinds and magnitudes. Many other imperial fabrics for the ufe of the army, the mint, \&ic. are carried on in various places; but the defeription of them would lead us beyond our limits.

The number of private manufactories at prefent fubfifing in St Peterfburgh amounts to about 100 . The principal materials on which they are employed, fome on a larger and others on a fmaller fcale, are leather, paper, gold and filver, fugar, filk, tobacco, diftilled waters, wool, glafs, clay, wax, cotton and chintz. Leather, as is well known, is among the moft important of their manufactures for the export trade ; accordingly here are 16 tan-works. The paper manufactorics amount to the like number, for hangings and general ufe,

Twelve gold and filver manufactories fell threads, lacet; Ruffl. edgings, fringes, epaulets, \&c. There are 8 fugar works; 7 for tilk goods, gauze, cloths, hofe, liufs, and feveral others. Here mult not be forgotten the great glafs-houfes fet on foot by Prince Potemkin, where all the various articles for ufe and ornament, of that material, are made ; but particularly that for looking-glafes, where they are manufactured of fuch extraordinary magnitude and beauty, as to exceed any thing of the kind produced by the famous glafs.toufes of Murano and Paris. Among many otbers which we cannot here particularize, are not fewcr than five letter founderies, one manufactory for clocks and watctes, \&e.

In giving a general view of the commerce of the commerme. Rulfian empire, it will te necefiary that we ficuld frit enumerate the exports and imports, with their average amount, and we thall then be able, by comparing theie, to form a juft eitimate of the commerci. 1 advantages enjoyed by the empire. Mr Tooke las furnified us with the following itatements of the annual exports from St Peterfburgh, on an average of ten ycars, from $1 ; 30$ to ${ }^{2790}$. During that time there vere annually exported,

| İon, | 2,655, 3 3 puods. |
| :---: | :---: |
| Saltpetre, | 19.528 do. |
| Hemp, | 2.498,yjo do. |
| Yex, | 792.932 do. |
| Napkins and liven, | 2.907, 376 arlchin |
| Sail cloth and trems, | $214,7=4$ picces. |
| Cordage, | s=0.j03 Foids. |
| Hemp oil and linfeed oil, | 167,432 do. |
| Linfeed, | 192,328 do. |
| Tobacco, | 52,645 cio. |
| Rhubarb, | 129 do. |
| Wheat, | 105:136 do. |
| Rve, | 271,976 do. |
| Barley, | 35.864 do. |
| Oats, | evo,cos io. |

Mats, 14,5
Planks, $1,193,125$
Boards, 85,647
Rofin,
Pitch,
Tar, $\quad 37,336$ do.

Train oil,
Wax,
Tallow, and tallow candles, Potaites,
Ifinglafs,
Caviar,
Horfe hair,

| 8,487 | do. |
| ---: | :--- |
| 9,725 | do. |
| 27,336 | do. |
| 81,386 | do. |
| 10,467 | do. |
| 943,618 | do. |
| 31,712 | do. |
| 5,516 | do. |
| 8,958 | do. |
| 5,635 | do. |

Horfe tails, 69,722
Hogs britles,
29,1 10 do.
Ruffis matts, 106,045
Goats fkins, 292,016
Hides and fole leather,
144,576 do.

Pieces of peltry, 621,327
Ox tongues, 9982
Ox bones, 73,350
It will be feen from the above table, that a very great proportion of the exports of R:ffia confifts of rave materials, or of the unmanufactured products of the country. Indeed the employment of the nation, confiderably as it has increafed fince the time of Peter I. is ftill directed more to production than to manufacture. This

Rufin is the natural progrefs of every human fuciets odvancing towards civilization; and Rufia muft continue to confine ittelf to the production and to the commerce in products, till the degree of its population, and the employment of its inhabitants, be adequate to the manufacturing of its raw materials.

The buying up of the foregoing articles, and their conveyance from the remote and raidland regions of the empire, form an important branch of the internal commerce. The greater part of thefe products is railed on the fertile fhores of the Volga ; and this ineftimable river, which, in its courfe, connects the moft difant provinces, is at the fame time the channel of bufinefs and indufiry almoit to the whole empire. Wherever its water laves the rich and fruitful coaft, diligence and indufty have fixed their abode, and its courfe marks the progrefs of internal civilization. St Peterfourgh, though at a difance of from 5000 to 6000 verfts from the rich mines of Siberia, receives, through the medium of this river, the ftores of its enormous magazines, the greater part of which are brought thither from the moft eaftern diftricts of Siberia, alinoft entirely by water. The Selenga receives and transfers them to the Baikal, whence they proceed by the Angara to the Yenilify, and pals from that river along the Oby into the Tobol. Hence they are tranfported over a tract of about 400 verfts by land, to the Tchuflovaiya; from this river into the Kamma, and thence into the Volga, from which they pafs through the fluices at Vifhncy-Volothok into the Volkhof, and from that river into the Ladoga lake, from which laftly, after having completed a journey through two quarters of the globe, they arrive by the Neva, at the place of their deltination. This aftonilhing traniport is rendered ftill more interefting by the confideration that thefe products, thus conveyed to St Peterfburgh from the neighbourhood of the north-eaftern ocean, remain here but for a few weeks, for the purpofe of again fetting out on a fecond, and perhaps a longer voyage, or, after being unflipped in diftant countries, of returning hither under an altered form, and by a tedious and difficult navigation, coraing back to their native land. Thus, how many feythes of the Siberian boors may have gone this circuitous courfe !

The number of veliels which, taking the average of sen years, from 1774 to 178 t, came by the Ladoga canal to St Peterfburgh, was 286 I barks, 797 half-barks, 508 one mafted verels, 1113 chaloups; in all 5339. If to thefe we add 6739 floats of balks, we lball have a total of 12,078 .

The value in money of thele products is, by the want which Ruffia experiences of wrought commodities, and by the increafing luxury, fo much leffened, that the advantage on the balance is proportionally very fmall. A litt of the articles of trade with which St Peterfburgh annually furnithes a part of the empire, would afford matter for the moft interefling economical commentary.

The annual imports brought to St Peterßurgh, on an average of ten years from 1780 to 1790 , will appear from the following table.
Silken fuffs to the amount of, Woollen ftuffs,

Ruble. Cloth, Cutton fuffe,

2,500,000 2,000,200
2,000,000 531,020

Silk and colton fockings 10,000 dozen pairs,
Trinkets,
Watches, 2,000 .

| Hardware, |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Hooking glafes, | :- |  |  | 50,000 |
| Englinh flone-ware, |  |  | $=$ | 50,000 |
| E |  | 43,800 |  |  |

Erglifh horfes, 250.
Coffee, 26,300 poods.
Sugar, 372,000 poods.
Tobacco, 5,000 poods.
$\begin{array}{llr}\text { Oranges and lemons, } & \text {. } & 101,500 \\ \text { Frefh fruit, } & 65,000\end{array}$
Herrings, 14,250 tons.
Sweet oil, - 20,000
Porter and Englifh beer, - - 262,000
French brandy, 50,000 ankers.
Champagne and Burgundy, 4000 pipes.
Other wines, 250,000 hogheads.

| Mineral waters, |  |  |  |  | 12,000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Paper of different kinds. |  |  |  |  | 42,750 |
| Books, | - |  |  |  | 50,150 |
| Copper-plate engravings, |  |  |  |  | 60,200 |
| Alum, 25,500 poods. |  |  |  |  |  |
| Indigo, 3,830 poods. |  |  |  |  |  |
| Cochineal, 1335 poods. | - |  |  |  |  |
| Glafs and glafs wares, |  | - |  | - | 64,000 |

Scythes, $3^{2} 5,000$, \&c. \&c.
A confiderable part of thefe commodities remains for confumption at St Peterfburgh, while the reft is conveyed by land carriage to varions parts of the empire. Land carriage is preferred on thefe occafions, as the paffage of the river up the flream would be tedions and expenfive. The carts or fledges made ufe of in this conveyance are generally drawn by one horie, and have each its own driver; though fometimes on long journeys there is only one driver to every three carts. They commonly go in caravans of from 25 to 100 carts.

According to the above tables, we are now enabled to ftate the value of the exports and imports, and the balance of trade, at St Peterfburgh, and from theie to deduce pretty juft conclufions with refpect to the commerce of the whole enpire. By the moft probable eftimation on this fame average of 10 years from 1780 to 1790 , the fatement will fand as follows.

| Exports, | - | $13,261,942$ rubles, |
| :--- | :--- | :--- |
| Imports, | $\mathbf{1 2 , 2 3 8 , 3 1 9 \text { do. }}$ |  |

To this profit we muft add for coined and uncoimed gold and filver, annually imported in the laft three years, viz. from 1788 to 1790 ,

337,.c64 rubles.
making a total profit of,
$\overline{1,360,687}$ rubles.
Thus the amount of the whole commerce of St Peterfurgh during the above period of ten years, was annually $25,837,325$ rubles. It we admit, upon the moft probable computation, that the whole annual commerce of the empire amounts to about $50,000,000$ of rubics, it will follow that more than the half is fhared by St Peteribargh.

## $\mathrm{R}^{\prime} \mathrm{U} \mathrm{S} \quad\left[\begin{array}{lll}413\end{array}\right]$ <br> $R \quad \mathrm{U}$

Rutina : The proportion which the other principal fea ports of the Ruffian emplre fhare in the general commerce, will'appear from the following table, drawn up for the year 1793.

Rubles.

(ii) $37,328,192$

Slate of ge- The commerce of St Peterfburgh is carried on chicily neral trade by commilfion in the hands of factors. This clafs of in Rufia,
merchants, which confifts almoft entirely of foreigners, forms the moft refpeciable and confiderable part of the perfons on the exchange. In the year 1790, of the foreign counting houfes, not belonging to the guilds, were 28 Englifh, 7 German, 2 Swifs, 4 Danifh, feveral Pruffian, 6 Dutch, 4 Freach, 2 Portuguefe, 1 Spanifh, and I Italian. Befides thefe, were 12 denominated burghers, and of the firlt guild 106 , with 46 foreign merchants, and in belonging to other towns, though feveral caufe themfelves to be enrolled in thefe guilds who re not properly merchants.

The Rultian merchants from the interior of the empire repair, at a ftated time, to St Peterburgh, where they bargain with the factors for the fale of their commodities. This done, they enter into contracts to deli-
ver the goods according to the particulars thercin fpecified, at which time they commonly receive the half or the whole of the purchafe-money, though the goods are not to be delivered till the following ipring or flummer by the barks then to come down the Ladoga canal. The quality of the goods is then pronounced on by fworn brackers or forters, according to the kinds mentioned in the contract. The articles of importation are either difpofed of by the Ruffian merchants through the refident factors, or the latter deliver them for fale at foreign markets; in both cales the Ruffian, to whofe order they came, receives them on condition of paying for them by infalments of 6,12 , and more months. The Ruffian merchant, therefore, is paid for his exports beforehand, and buys fuch as are imported on credit; he rifks no damages by fea, and is exempted from the tedious tranfactions of the cuftom-houfe, and of loading and unloading.

The clearance of the flips, the tranfport of the goods into the government warehoufes, the packing and unpacking, unloading and difpatching of them,-in a word, the whole of the great buftle attendant on the commerce of a maritime town is principally at Cronftadt, and that part of the refidence called Vaffilioftrof. Here are the exchange, the cultom-houle; and in the vicinity of this ifland, namely on a fmall ifland between that and the Peterfburgh ifland, the hemip warehoufes and magazines, in which the riches of fo many countries are bartered and kept. In all the other parts of the city, the tumult of bufiness is fo rare and imperceptible, that a ftranger whofhould be fuddenly conveyed hither, would never innagine that he was in the chief commercial town of the Ruffian empire. The opulent merchants have their dwellings and counting houfcs in the moft elegant parts of the town. Their houfes, gateways, and courtyards, are not, as in Hamburgh and Riga, blocked up and barricadoed with bales of goods and heaps of timber. Here, befides the counting-houfe, no trace is feen of mercantile affairs. The bufinefs at the cuftom-houfe is tranfoeted by one of the clerks, and people who are hired for that purpofe, called expeditors; and the labour is performed by artelfchiki, or porters belonging to a kind of guild.

The factor delivers the imported goods to the Ruffian merchant,
(x) To this table of the principal feaports of Ruffia, muft now be added the town of Odeffa, or New Odeffa, which 10 years ago was fcarcely known as a place of trade, but is now become a populous and important fea-port. Odeffa is fituated in the government of Katharinoflaf, on a fmall gulf of the Black fea, between the rivers Dniepr and Dnieftr, $4+$ miles W. by S. of Otchakof, and nearly 1000 miles S. of St Peterburgh. In 1805, this town contained a population of 10,000 perfons, a. I its population was yearly increafing. The houfes are well built of free ftone; the flreets are wide, and are difyoied according to a regular plan, but unpaved. The town is fortified, has a fecure and capacious harbour, capable of admitting veffels of confiderable burden, and a mole or quay extending above one fourth of a mile into the fea, furceptible of being converted to the moft ufeful purpofes. There are feveral warchoufes for the purpofe of depofiting bonded goods, at times when the market proves unfavourable. The public marliets are well fupplied, and there are two good theatres, befides other places of public amufement. The fociety of this thriving town is rendered extremely gay by the refidence of the Polifh nobles, who refort to it in great nembers, during the fumms, for fea-bathing; and the wife and upright adminiftration of the duke de Richelieu, who was govermor in $18 \%$, had added greatly to the profperity of the place. The merchants are chiefly Germang and Italians, though, at the time we mention, there were eftablifhed in this port two Britifh houfes of refpelability. The chief exforts from this place are sheat and other grain, with which 1000 fhips have been loaded in a fingle year. $f$ mong the natural difadvantages of Odefit, muit be noticed the barenefs and want of wood in its immediate neighbourhood, and the dangerous naxigation of the Black fea, from the currents and want of fea room. In point of commercial importance, Odefla ranks at leaft on an equal footing with Tayinnoki', Lohg. $29^{\circ}$. $24^{\prime}$ E. Lat. $46^{\circ} 28^{\prime}$ N. See Margill's Travels in 'Turkey, Isaly crd Ruffa, vol. i. r. 257.

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Renis. $\xrightarrow{\sim}$ mercizant, who :ends them off, in the manner already mentioned, or retvils them on the fpot, in the markets, ware-houles, ard thops.

There is no ex weration in affrming, that it would be difficult to point cut a people that have more the fpirit of trade and mercantile induifiy than the Ruffians. Traftic is their darling purfiit; every common Ruffian, if be can but by any means lave a trifling fum of noney, as it is very peffitle for him to do, by his frugal and poor way of living, tries to become a merchent. This career he nfually begins as a rafnofchis or feller of things about the freets; the profits arifing from this ambulatory trade, and his parfimony, foon enable him to bire a lawk or fhop; where, by lending fmall fums at large interelt, by taking advantage of the courle of exchange, and by employing littic artifices of trade, he in a hoit time becomes a pretty fu'oftantial man. He now buys ind builds houfes and fhops, which he either lets to others, or furnilkes with goods himfelf, putting in perfons to manage them for fmall wages; Eegins to launch cut into an extenfive trade, undertakes podriads, contracts with the crown, deliverits of metchandife, \&c. The nemerous inflances of the rapid fuccels of fuch people almoft exceed all defcription. Py thefe methods a Rufian merchant, named Sava Yacovlof, who died not many years ago, from a hawker of fifh about the freets, became a capitalift of feveral millions of rubles. Maty of thefe favourites of fortune are at firit vaffals, who obtain paffes from their landlords, and with there ftroll about the towns, in order to feek a better condition of life, as labourers, bricklayers and carpenters, than they could hope to find at the plough rail in the country. Some of them continue, after forqune has raifed them, and even with great riches, fill Aaves, paying their lord, in proportion to their circumfances, an olerok, or yearly tribute. Among the pcople of this clafs at St Peterfburgh are many who telong to Count Sheremetof, the richeff private man in Ruffia, and pay him annually for their pafs above 1000 rubles. It often happens that thefe merchants, when even in fplendid circumftances, fill retain their national habit and thei long beard; and it is by no means rare to fee them driving along the freets of the refidence, in this drefs, in the moft elegant carriages. From all this it is very remarkable, that extremely few Rufian houfes have fucceeded in getting the foreign commifion trade; a friking procf that there is fomething befides induftry and parfimony requifite to mercantile credit, in which the Ruffians muft have been hitherto deficient.

Thofe uho wifh for a more minute account of the arts, manufactures, commerce and trade of the Ruffian empire, will find ample details on thefe important fubjects, in the third volume of Mr Tooke's View of the Ruffian empire, during the reign of Catharine 11. and to the clofe of the eightcenth century.

## Nations

comp fing
the Rufian
empire.

This valt empire contains within its boundaries, according to Mir Tooke's account, not fewer than 81 diflinet nations, differing from each other in their origin, their language, and their manners. Without enumerating all thofe tribes, the names of many of which are fcarcely known to civilized Europe, we fhall only particularize the moft remarkable. Thefe are the defcendarts of the ancient Slavi, comprehending the Ruflians properly fo. called, and the neighbouring Pales; the Firs, under which denomination ne may ineluce the

Laplanders, the Ehhonians, the Livonians, the Permi- Ruffiv. ans, and the Ottiaks; the numerous Tartar hordes that inhabit the fouthern parts of the empire, comprehending the Mongol Tartars, the Kalmuks, the Derve.ans, the Torgots, the Bargaburats; the Khazares, the Kangli or Petchenegans; the S.berian Tartars; the Tartars of the Krimea; the Bafchkirs; the Kirghefes, and the Chevines; the inhabitants of the regions of Mount Caucafus including the Georgians; the Mandhurs, includiag the Timgufes, the Samoiedes, the Kamtichadales, and the Kozaks.

Of leveral of thefe nations we have already given a:2 account, in the articles Cossacs, Kimuscharka, Laplanid, Polang, \&ec. and we fhali bere confine ourfelves chiefly to the manners and euftoms of the Ruffians, the Fins, the Samoiedes, the Bafchkirs, the Kozaks, the inhabitants of the Ukraine, and the Krimean Tratars.

The native Ruffians are of the middle fize, of a ftrong Cencra! and robuft make, and in general. extremely hardy chasacter They liave ufually a frall rrouth, with thin lips and of the white teeth; little eyes; a low forehead ; the nofe frequently fmall, and turned upwards, and a bufhy beard. The expreffron of their countenance is grave, but good. natured. The gait and geftures of the body have of iea a peculiar and impaffioned vivacity, partaking of a certain complaifance, and engaging manner. They are in general capable of bearing fatigue, want of accommodation and repofe, better than the inhabitants of any other European nation. Notwithfanding the feverity of the clinate, their difcafes are few, and there are frequent and remarkable inftances of longevity.

With refpect to general character, all writers allow that they are ignorant, and oftea brutal, not eafily roufed to action, and extremely addicted to drunkennefs. They are alfo not remarkable for cleanlinefs.

Having thus given a general view of the Ruffian charafter, we muft corfider a little more particularly that of the feveral clafes into which they may be divided, and make a few zemarks on tbeir manners and cuitoms.

According to Mir Tooke, there is in Ruffia at pre-Nobility Sent but one order of nobility, though it is not unufual and genrry. with travellers to mention the higher and lower nobility. The title boyar, fo common in the beginning of the 18 th centu:y, is now difufed; and thofe of prince, count, and baron, form the principal diltinctions. The Ruffian nobility have always enjoyed certain peculiar rights and privileges, though thefe have been rather derived from long ufage, than fanciioned by any written law. Thus, they can exclufively pofiefs landed effates, though they cannot alienate or fell them. If a nobleman be found guilty of an; high crime, he may incur the forfeiture of his eftate, his honour, or his life, but he cannot be made a vaffal to the crown. The qobility can arbitrarily impofe taxes and fervices on their vaffals, and may inflict on them any corporal punifhment fhort of death, and they are not refponfible for their vaffals. A nubleman cannot be compelled to raife recruits again丹 his will, or to build a magzzine or barrack for the crown ; his perfon and landed property are exempted from taxation; he can hold affemblies, fet up manufactories, and open mines on bis own ground, without paying tribute to the crown. He is, however, bound to perfonal fervice in war. The Ruffian nobility live in great fiyle, and fupport a confiderablc effabliffraent of fervants. As part

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Ruffa of this chabifinment, they have generally 2 duarf and a fool. Thefe dwarfs are the pages and playthings of the great, and at almoft ai! entertainments, flard for hours at their lord's chrir, holding his finef boy, or awaiing his conmatids.

The tzar A $A^{1}$ cxei alhorred the perfonal abafement of the inferior ciefles to their fuperrors, which he woald not accept when exhibited to himfelf; and it may appear furprising that Peter I. who defipifed mere ceremonials, flould have encouraged every catravagance of this $k$ ind. In a few years of his reign, the beautiful fimplicity of defignation and addre's which his father had encouraged was forgotten, and the cimberfome and almolt ineffable titles which difgrace the little courts of Germany were crowded into the language of Ruffia. He enjoined the lowelt order of gentlemen to be addrefied by the phrafe, your refpectalle birth; the next rank, by your li:gh good birth ; the third, your excellence; ; the furdh, your high excelience; then came your brilliancy, and highbviliaancy; lighnefs and majefy were referved for the grand duke and the emperor.

Thefe titles and modes of addrefs were ordered with ali the regularity of the manual exerci.e; and the man who thould omit any of them when fpeaking to his fupcrior, might be Jawfully beaten by the offended boyar. Before this period, it was polite and courtly to「peak to every man, even the licit apparent, by adding lis father's nome to his own ; and to the grand duke, Paul Petrovich, would have been perfectly refpectul, or a fingle word fignifying cicar fither, when he was not named. Thergh pompous tilles were urknown among them befor: the era of Peter, the fabordination of panks rwas more comple'e than in any other Europern nation; but with this fi.apl sity peculiar to them and the Poles, then they had but three ra:ks, the foreereign, the nob1. he o: jenry, and the ferf. It was nint till latery that the merca atile rark formed any ci linetion; ard that ditinction is no more than the freetom of the perfon, which was formerly a transferable enmmodity belonging to the boyar. Notwithranding this finsplicity, v:hich pu: all gentemen on a level, the fol Coription of a perfor ho! liang en infericr ofice was not $/ t=-\frac{m}{2}$, but flaye; and the legal woed for a petition in form was shclobitin; which tign:fies a beating with the forchend, or flining the ground with the foreheart. which was actually done. The father of Aiexei abolihed the practice; but at this day, when a Rullian petitions you, the tutches his forchead with his in. ger; and if the be very. earnel, be th.en puts his finger to the ground.
The Rufian nobles formeriy wore long bearde, and long rubes with ftrait fiteves darafing down to theis ancles; their coilors and finits were generaily wrevgat witl filk of dian :e-t colours; in jiace of hate, they cowered their heads wi.a farred ears. and inftend of tho:e, wore red or yclor iesthem yukirs. The odefo the vomun netal'v refembled that of the other fex, with this difiference, thet their garments were loofer, their caps fantafical, and thizer flifift ifectes three or four ells in length, gathered up in foldes from the fhoulder to the fure arm. At prefent, borvever, ths French Fallions prevail among the better fort throughout all Ruffia.

The common people are generally tall, healthy, and robuft, patient of cold and hunger, inured to hardithips, and remark bly capable of bearing the mof fudden tranfition from the estremes of bot or cold weather.

Nothing is more culmmary than to fee a Ruffun, who Rufia. in overheated and fweating at every pore, ftrip himfelf naked, and plange into a river; nay, when their pores are all opened in the hot bath, to which they have dily recourie, they cither practife this immerfion, or fubject themfelves to a dicharge of fome pailfuis of cold water, This is the cull m of both men and women, who enter the baths promifccoufly, and appear naked to each other, witho: 1 f. ruple o: hefitation.

A fuftion will fubliti for many days on a little oatme. 1 a.d water, and even rax-roots; an onion is a regaie; but the food they generally ufe in their journeys is a kind of rye-bread, cut into finall fquare picces, and dried again in the oven. Theie, when they are hungry, they foak in water, and eat as a very comfortabie repaft. Roth fexes are remarkably healthful and robutt, and accuftom themfolves to fleep every day after dimer.

The Fulfian women are remarkably fair, comely, ftrong, and well-fhaped, obedient to their lordly hufbands, and patient under dilcipline; they are even faid to te fond of correction, which they configer as an infallible mark of their hufbands conjugal affection ; and they pout and pine if it is withheld, as if they thought themlelves treated with contempt and difregard. Of this neglect, however, they have very little caufe to complain; the Ruflian hufband being very vell difpofed, by nature and inebriation, to exert his arbitrary power.
Such is the flavery in which the Ruffians of both fexes are kept by their parents, their pations, and the emperor, that they are not allowed to difpute any match that may be provided for them by thefe directors, howcver difagreeable or otious it may be. Officers of the greatet? rank in the atmy, both natives and forcigners, ha: e been faddled with wives by the fovereign in this arbitrary manner. A great general fome time ago decealed, who was a native of Britain, having been prefled by Elizabeth to marry oate of her ladics, faved limfelf from a very difagrecable marriage, only ty pleading the badne : of his conftitution.

In Ithliz, the autharity of patenis over their children Ausherity is almofi as creat as it was smong the ancient Komans, of parents and is often cxercifed with comal ferenity. Should a nuertheir father, in punifinis his fon for a fault, be the imme- chidrem diate caule of his death, he could not be called to account for his conduet ; he would have done nothing bu: what the law authorifed im to do. Nor does this Iegal tyranne ceale with the maturi'g of children; it contintes while they remain in ti ir fter's fiom? y , and is often exerted in the moft indecent manner. It was not uncommon, even in St Pctendurgh, to lee a lady of the bigheft rank, and in all the poni? and pride of youthful beauty, ftanding in the conit-yerd :ath hor back bare, expofed to the whip of her father's lervants. And fo little difgrace is attached to this purifloment, that the fame lady would fit down at tal ic with her father and his tuefts immodiaicly after flie had fuffered her flotginin, provided its feverity lad not confined her to bed.

In fuperltitious notions and practices, the common 226 Fiuftians are by no means behind their neiglbours. Mof perfitius. of them believe in ghofts, apparitions, and hologoblins; and few of them are fond of inhabining the houres of near relatives deceafed. Hence it happens that many houfes are left to fall into ruine; or fold to ftrangers at a
tery cheap rate. Even a houfe whofe owner has fallen into poverty, or has otherwife become unfortunate, will not eafily find a purchafer, becaufe it has ejected its mafter. On the Thurfday before Whitiuntide, the young women celebrate the feltival of the Slavonian goddels Lada, and her fon Dida, with finging and dancing ; and at this time they decorate a birch bufh with garlands and ribbons, and then throwing it with great folemnity into a river, predict from the figures the ribbons affume in the current, whom they fiall wed, and what fhall be their fate in marriage. On the 5 th of January they go by night into a crols ftreet or a cellar, and fancy they hear in cvery found the prediction of their deftiny. This is called /usf chit, to go a hearing. The day after Chriftmas is folemnized by the midwives, becaufe the Virgin Mary's midwife was materially concerned in the redemption of the world. In many places they believe that fome witches, by their incantations, have the power of depriving the female fex of their privilege of becoming mothers, but that others can preferve it inviolable ; of courfe brides always apply to the latter. Their domovois. are our fairies, and their vodovois our water goblins, or wizards of the fream.
the palate. Mcad is alfo a common beverare; but the native malt liquors ate very bad. The liuffians confume a great quantity of tea, and are faid by Mr Macgill to lave the betl which is drunk in Europe. This is called the flower of tea, and is brought over land by the Chinefe merchants who come to the Ruffian fairs, and exchange their tea for other articles uled in their country.

The amufements of the native Ruffians confift prin-Amufecipally of finging, dancing, drafts, and fome otherments. games; foot-ball, and more efpecially fwinging. The iwing is every where, and at all times, ufed as an amufement by perfons of rank and condition; but at Eafter it is the grand diverfion of the holidays. The fwings may be divided into three forts; fome have a vibrating motion, and the fe are the moft common, well known in Germany and Britain; others are turned round in a perpendicular, and others again in a horizontal direction. The firlt of thefe latter ipecies confifts of two high pofts, on the top of which refts an axle, having two pairs of poles fixed in its centre. Each of thefe pairs of poles lras at its two extremities a feat fufpended from a moveable axis. The proprictor, by turning the axis that refts on the two pofts, makes all the eight feats go round in a perpendicular circle, fo that they alternately almoft touch the ground, and then are mounted aloft in the air. The laft kind is compofed of chairs, chariots, fledges, wooden horfes, fwans, goats, \&cc. faftened at the extremities of long poles, and forced rapidly round in a horizontal circle. In the eafter holidays all kinds of machines are fet up in the public fquares; and as the common people are remarkably fond of the diverfion, it is a joyful fafon to the populace, who then devote themfelves without reftraint to their national propenfity to mirth. The numerous concourfe of perfons of all ranks and defcriptions, who parade in a circle with their elegant and fumptuous equipages, the honeft merriment of the crowd, the hearty participation with which they enter into thefe amufements, the friking and fingular appearances of the exhibition itfelf, give this popular feftivity a character fo peculiar, that the man of obfervation, who will take pains to ftudy the nation even on this humorous flage, may catch very powerful ftrokes of the pencil for his delineation. He will not fail to difcern the general gaiety with which old and young, children and graybeards, are poffeffed, and which is here not kindled for a tranfient moment, but is fupported by every pleafant occafion, and placed in its moft agreeable light. He will remark the fpirit of urbanity and gallantry, appearing in a thoufand little ways, as by no means an indifferent feature in the national character Here a couple of beggars with their clothes in tatters, are faluting one another in the moft decent and refpectful manner ; a long fring of queftions about their welfare opens the dialogue, which likewife concludes with a polite embrace. Yonder a young fellow is offering to hand his girl, whofe cheeks are glowing with paint and brandy, into a feat in which they are both prefently to be canted up in the air; and even in thofe lofty regions his tendernefs never forfakes lim. Only oue flep farther, and the eye is attracted by different fcenes. The fame people who were but now greeting each othei in friendly terms, are engaged in a violent quarrel, exhaufting the enormous ftore of abufive epithets rith which the Rufirian tongue abounds. All that san de-

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Ruflas grade and exalperate a human being finds its expreftion in this energetic language ; yet whth this rehemence of fpeech they never lufe their temper.

While they are making the moft furious geftures, Atraining their throats to the utmult pitch, loading one another with the molt liberal profulion of infuls, there is not the leaff danger that they fhould proceed to blows. The police, well knowing that with all this noife no lives will be lof, cools the heated parties by a plentiful fhower from the fire engine, kept on the fpot for that purpofe, and which is found to be of fuch excellent fervice, that one of them is always at hand wherever a concourfe of people is expected. Now, all at once the frife is over, the two vagabonds are running arm in arm to the neareit polt houle, to ratify their renovated friendShip uver a glafs of branciy.

In the vicinity of the fivings, booths are ufually run up with beards, in which low comedies are performed, Each reprefentation laits about half an hour, and the price of admittance is very trifling; but as the confluence of the people is extremely great, and the acling goes on the whole day, the profits are always conliderable both to the managers and to the performers, who flare the amount between them.
Arodes of The principal modes of conveyance in Ruffia, are by conveyancemeans of fledges and drojehas. 'I nis latter carriage is, we believe, peculiar to Ruflia, and is employed in the large towns like our hackney coaches. It is defcribed by Mr Porter as a fort of parallelogram with four leathern wings projecting at no great difance from its body, and pafing in a femicircular line towards the ground, It runs on four low whicels, and is generally furnihed with two feats, placed in fuch a manner, that two perfons can fit fideways, but with their backs to each other. In fome of thefe cartiages the feat is fo formed, that the occupier fits as on a faddle, and for his better fecurity holds by the driver's fafh. ki d of violin, with 2 large belly like that of a lute; but their mufic is very barbarous and defeelive. Yet there are public fchools in which the children are taught to fing. The very beggars afk alms in a whining cadence, and ridiculous fort of recitative. A Ruffian anebaffador at the Hague, having been regaled with the beft concert of vocal and inftrimental mufic that could be procured, was afked how he liked the enter amment : he replied, Perfectly well; the beggars in my couttry fing joift in the fame manner. The warlike mufic of the Ruflians confifts in kettledrums and trumanets: they likewife ufe hunting horns; but they are not at all expert in the performance. It has been faid, that the Ruffians think it beneath them to dance, which may have been the cafe formerly; but at Peternourgh dancing is at prefent much relilhed, and a minuet is no where fo gracefully performed in Europe as by the faflionable people in that metropolis.

The Fimms are rather of a fhort ffature, have a flat face with funk cheeks, dark gray eycs, a thin beard, tawney hair, and a fallow complexion. They are all of a frong make, and were it not for their exceffive propenfty to drinking fpiriuzus liquors, would be remarkably healthy. They are univerfally great eaters, and in fite of their ftrong paffion for brandy, not unfrequently attain to a very advanced age. Their drefs confifts of woollen kafians, worn Mort to the knee,

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with loofe black pantaloons and boots. Now and ther, Ruffia. by way of extraordinary fuery, a fort of embrviderea decoration adorns their upper garments. Thieir caps are unvaryingly of the fame fhape, round, with a broad rim turned up on all fides round the crown.

Mr Acerbi has given the fullowing charactoritic account of the Finnilil peafants.
" The very beggars in other countries live in eafe, and even luxury," lays Mr Acerbi, "compared to the peafantry of the north; but the northern peafantry are a far happier, and fas more refpectable race, than the poor of more civilized countries; they are indultrious, and their induftry can always procure enough to fupport life with comfort; that abject degree of poverty is not known there, which deftroys indultry by dellraying hope. They have a curious mode of filling: when the filherman obferves a filh under the ice, in thallow water, he frikes the ice forcibly, inmediately orer the fifh, with a club, and the fifh, itupefied by the blow, rifes to the furface. They ufe a fpear to kill the bear, or, as they call him, the old man in the pelice : a crofs bar is fixed about a foot from the point of the fpear, as otherwile the bear might fall upon the fpearlman: the beaft, feeling himfelf wounded, Lolds the fipear faft, and prelles it more deeply into the wound. The proverbs of the Finlanders bear teftimony to their induftry and họfitality."

Their poetry is alliterative, without shyme. The Fintuk fpecimens tranllated by Mr Acerbi are very interefing. puetry. The following was compofed by a Finnill peafant upon his brother's death.
" The word went forth from heaven, from Him in whofe hands are all things. Come hither, I will make thee my friend; approach, for thou thalt henceforth be my champion. Come down from the high hill ; leave the feat of forrow behind thee; enough haft thou fuffered; the tears thou haft flied are fufficient: thou hat felt pain and difeafe; the hour of thy deliverance is come ; thou art let free from evil days; peace hafteneth to meet thee, relief from grief to come.
6. Thus went he out to his maker: he entered into glory; he hattened to extreme blifs; he departed to enjoy liberty ; he quitted a life of forrow; he left the habitations of the earth."

The Finns have many Runic verfes which are fuppofed to contain healing powers, and thefe are ftyled fanat, or charms; as mandanfanat, charms for the bite of il fernent; rulenfanat, cliaims to cure fealds or burns; raudinnfunat, charms to heal wounds, \&:c.
"Thefe charms are very numerous, and though not much effeemed by the inhabitants of the fea coaft, are in the highen repute amongt thofe who dwell in the interior and mountainous parts of the country. This is likely to continue to be the cafe as long as the practice of phyfic remains in the liands of itinerant empirics a:d ignorant old women. They jointly with charms ufe fome fimple remedies, as falt, milk, brandy, lard, \&c. but attribute the cures they perform to the fuperior efit. cacy of the verfes they fing during the application; the chief theory and foundation of their practice confifting in a belief with which too they imprefs their patiens very frongly, that their complaints are occafioned by witcheraft, and can only be removed by means of thefe incantations.
"Of thefe charms it is not eafy to obtain [pecimens,

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Rutias. as they who are veried in them are unwiling to comnunicate them to literary men, efyecislly when they fee them prepaie to commit thera to writing, as tlicy fear wo be reported to the magiffrute or clergyman, and pumined, or at leaft chided, for their fuperitition. It is a pity the clergymen will not be at the pains of difcrimiinating betvist the verfes which are the prociuction of fuperitition, and thofe of an innocent nature. So far are they from attending to this particular, that they do their utmoft to dilicourage Runic poeiry in general, and without exception ; which, partly on that account, and more owing to the natural changes which time brings about in all human affairs, is rapidly falling into difule,

* Acerbi"

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Samuvedes. and in a few yeazs will be found only in the relations of travellers *."

The Samoiedes are florter and thicker than the Laplanders; in other relpeets thicy sefemble them very mucl. They have litte hair, and cover their heads with a fur cap. Their fkin coat reaches to their knees, and is faftened round the waift with a girdle. They have breeches, fhoes, and ftockings, made of the fame materials as their coats. Over their fhoulders they throw a black bear's $\mathbb{k} \mathrm{k}$ in, with the feet hanging at the four corners. This cloak is placed obliquely on the left fide, that the right arm may be more at liberty to ufe their bows and arrows. On their feet they wear a kind of Ikates two feet long, with which they flide with prodigious fwiftnefs over the frozen fnow, that inceffantly covers their mountains.

The women are capable of enduring great fatigue, and alliduously breed up their children in the ufe of the kow, which they handle with great dexterity. They are dreffed nearly like the men, except about the head. A lock of twifted hair hangs down to their fhoulders, at the extremity of which is a knot formed of a long ftip of bark, which reaches to their heels. In this confills their finery. They hunt with their hufbands, and are equally expert in the ufe of their weapons. Conjugal fidelity is flrictly oblerved, and the punifhment annexed to a violation of it on either fide is death.
The Samoiedes have no knowledge of the Stupreme Being ; they ufe, as idols, the heads of beafts of prey, particularly thofe of bears, which they put up in the woods, and fersently worhip. Their priefts, whom they call Shamauns, are choien from among fueh as are advanced in years ; and they imagine that thefe can reveal to them the will of their gods, forctel future events, and perform all kinds of magical operations.

Sambiedes, in the Ruffian language, fignifies men-eaters, a term which denotes the barbarity of the people; but there is no good reafon for believing that the term can be applied to them in its worft acceptation. They proDably derived the name from the cuftom they have of eating their meat without dreffing, and not from the habit of devouring their deceafed friends or prifoners, of which they have been acculed.

The Samoiedes, like the Laplanders, live in tents or caverns, according to the feafon of the year. Like the Oliaks and Turgufians, they are exceedingly dirty in their perlons and habits. Their marriages are attended with too other ceremony than a verbal agreement. They sall their new-born children by the name of the firt animal they meet ; or if they hapsten to meet a relation, h.e generally names the clild. Their priefts ufe a tabor, or an inftrument very mech like it, either to mako their
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conjurations, or to that them in thofe atts of which Ruffa they delude their coinhty metn.

The Buifhlirs form one of the military hordes of Paki,kis wandering Tartars, which formerly roamed about the fouthern part of Siberia, under the cenduet of thcir chiefs, and fubfitted principally by plunder. Tl.ey now conftitute a part of the iriegular troops of the Ruffian empire, and have taken up their refidence anoong the Ural mountains, extending to the Tartar ceferts on the borders of the rivers Oby and Tobol. In the year 1770 , they confiled of about 27,000 familics.

Every tribe of the Balchkirs cliocfes its own ruler, who is called Aarchirfis. The huis which they inhabit during winter are built in the fathion of thofe in the Kuffian villages, having a chimney of a conical form of about five feet high in the midedle of the principal apartment, which is furnifthed with large benches, ufed eithur as feats or couches. The houle is ufually filled with frnoke, and in its whole economy feems very much to relemble an Irifh cabin. In fuminer the Bafchkirs inhabit tents covered with felt, and furnified like the huts with divifions and a chimney in the centre. A fummer encampment never exceeds 20 tents, but a winter village contains from 10 to 50 huts.

The moft opulent of thefe tribes are thofe which divell on the eaf of the Ural chain. Some individuals of this mation polfels not fewer than 4000 horles, who fatten on the richeft paftures in the valley till the month of June, when they are compelled by walps and other infects to feek for fhelter in the mountains. The principal wealth of this people confifts of their flocks and herds; but it is chielly from their horfes they derive the necellarics of life, milk, meat, vefiets, and garments. They have fome knowledge of tillage, but as they fow but little grain, their harvefls are very inadequate to their wants; and in general they prefer a paftoral life. Much of their trafic conffils of honey. They apply with great fuccefs to the cultivation of bces, making their hives in hollow trees, as a greater protection from accidents and wild animals. Frequently one man is the polfeffor of 500 or 600 of thefe induftrious commoners.

The women employ themfelves in weaving, dyeing and fulling their narrow coarfe cloths, and they alfo make the clothes of the whole family, while the men of the lower claffes follow the more laborious occupstion of fabricating felts, and tanning leather. Both fexes ufe linen fpun from the down of nettles, of which they make wide drawers defcending to the ancles. On their feet they wear the ufual eattern flipper, and by way of outer garment, a long gown generally of a red colour bordered with fur, and faftened round the wailt with a girdle, in whlich is hung the dagger or feymeter. The lower ranks in winter wear a pelice of fteep fkin, while the higher orders wear a horfe's finn, in fuck a manner that the mane flows down their backs, and waves in the wind. The head is covered with a conical cloth cap, Sometimes ornamented wifh fur, and fometimes plaino The garments of the women, among the fuperior clafles, are of filk, buttoned before as high as the neck, and faftened by a broad fteel girdle. Round their bofoms and throats they wear a Glawl hung with ftrings of beads, flells, and coins:

Their diverfions are confined to religious ceremonies? and a fow peculiar feftivale, das confiet of linging, dani-

Pulat cing, and horferacing, In their fongs they enumerate the achievements of their ancellors, or of themfelves, and formetimes alteraate thefe epic poems with love ditties. Thefe fongs are alweys accompanied with appropriate gettures. In their dances they make flrange gefticulations, but the motion of the feet is vesy gent.c; and the women, while ufing thefe, hold a long filk handkerchief in their hand, wbich they wave about in a wantos manner.

In their entertainments, the aged occupy feats of honour; and when Arangers are introduced, thefe are placed next the old men. The language of the Bafchkirs is a Tartar dialect, but difierent from that which is fpoE.en in the diftrict of Kazan. Their religion is Mahometran, and they are much addi\&ted to all the fuperfitions of the eall.

The Bafchkir foldiers are dexterous horfemen, and Akiliul in managing the bow. They are ufually cafed in thirts of mail, with thining helmets. Their ordinary weapons are a fword, a fhort bow, and a quiver containing 24 arrows. They alfo carry a long pike, adorned at the top with various coloured pendants. Their borfes are frall, and though bardy and active, are not at all fuperior in point of appearance to thofe of the Kozaks.

The leaders of the Bafchkirs have a very fuperb and warlike appearance. They wear a fhirt of mail and a fitel helmet like the common men, but over the fhirt is thrown a fearlet kaftan flowing from the Ghoulders down over the backs of their horfes. They alfo wear large fcarlet trowfers, and large boots of yellow leather. The faddle covering of the horfes ufually confifts of a leopard's fkin. See Porter's Travels, vol. ii. Plate at
large whip fufpended from the left wait fupplying their place. Befides their pike, they commonly have a bad fabre, which they neither like, nor well know hos to make ufe of; one or two piftols in a bad condition, and a carbine which they feldom employ.

Their horfes are fmall, lean and liff, by no mezns capabie of a great effort, but indefarigable. Bred in the fleppes, they are infunfible to the inclemency of the fiva. fons; accuftomed to endure hunger and thivft; in a word, not unlike their mafters. A Kozak will feldono venture to expofe himfelf againft a Turk or a Tartar, of whom he commonly has neither the addrefs nor the vigour; befides his horle is ncither fufficiently fupple, nor fwift, nor fure-footed ; but in the end his obftinate perfeverance will tire the moft active horfeman, end harafs the moft frifky ficed, efpecially if it be in a large plain, after a defcat. All the Kozaks, however, are not badly armed and ill mounted. Several of them keep the arms and horfes which they may lave been able to obtain by conqueft in a campaign ; but, in general, they had rather fell them, preferring their patient poniss and their light pikes. As for their efficers, they are almoft all well mounted, and many of them have gooc and magnificent arms, refembling in that refpect the Turks and Poles.

The Kozaks, if we except the Tfchugnief brigade, never fight in a line. They are fcattered by platoons, at the head, on the flanks, and in the rear of the army, fometimes at confiderable diftances. They do the duty of advanced guards, videttes, and patroles. Their activity and vigilance are incredible. They creep and ferret every where with a boldnefs and addrefs of which none but thofe who have feen them can obtain-an idea. Their numerous fwarms form, as it were, an atmofphere round the camps and armies on a march, which they fecure from all furprife, and from every unforefeen attack. Nothing cfcapes their piercing and experienced eye; they divine, as if by infting, the places fit for amfufcades; they read on the trodden grafs the number of mea and horfes that have paffed; and from the traces, more or lefs recent, they know how to calculate the time of their paffing. A bloodhound follows not better the fcent of his game. In the immenfe plains from Azof to the Danube, in thofe monotonous folitudes covered with tufted and waving grafs, where the eye meets with no tree, no object that can obftruct it, and whofe melancholy uniformity is only now and then interrupted by infectious bogs and quaymires, torrents overgrown with briars, and infulated hillocks, the ancient graves of unknown generations; in thofe deferts, in thort, the rorming Kczak never mifies his way. By night, the flars direct his folitary courfe. If the fky is clear, he alights from his horfe at the firt kurgan that chance throws in his way; through a long habit of exereifing his fight in the dark, or even by the help of feeling alone, he diftinguifies the herbs and plants which thrive beft on the declivity of the hillock expefed to the north or to the fouth. He repeats this examination as frequently as the opportunity offers, and, in this manner, be follows or finds again the direction which he ought to take for regaining his camp, his troop, or his duelling, or any other place to which he is bound. By day, the fon is his fureft guide; the breath of the winds, of which he knows the periodical courfe, (it being prefty regular in thefe countries), likewife ferves him as a compafs to fteer

## $R \quad \mathrm{~S}$ <br> $R, U^{\prime} \cdot S$

It fometimes happens, that the lord of a tillage in puftiz.

* Secret Memoirs of the cour of Peerflurgb, vol. iii.

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Kuzak of the Ukrainc.

Ruffis -bv. As a ne:v fecies of augury, the Kozik hot unwillingly interrogates the birds; their number, their fpecies, their flight, their cry, indieate to him the proxinvity of a fpring, a rivalet, or a pool ; a habitation, a herd, or an army. Thofe clouds of Kusins which encompafs the Ruilian armies for the lifety of their encampments, or of their marches, are not lefs formidable to the enemy. Their refitlefs vigilance, their ralh curiofity, their fudden attacks, alarm him, harafs hin inceffantly, and inceflantly watch and controul bis motions. In general action, the Kczalk's commonly keep at a diftance, and are fpeftators of the batte; they wait for its iffue, in order to take to flight, or to fet out in puriuit of the vanquifhed, among whom their long pike makes a great flaughter *.

To the account given under Cossacs, of the inhalitants of the Ukraine, we may add the following pariculars, which, though anony mous, appear to be accurately ftated.

When a young, woman, in the Ukraine, fecls a tender paffion for a young man, the gocs to his parents, and fays to him, "Pomagac-bog," (be you bleffid of God). She then fits down, and addreling herfelf to the oiject of her affection, makes her dcclaration of love in the following terms: "Ivan, ( Fheodore or whatever eife may be his name) the goodnefs I fee written in your countenance, is a fufficient aflurance to me, that you ate capable of ruling and loving a wife; and your excellent qualities encourage me to hope, that you will make a good gopodar (hufoand or mafter). It is in this belief, that I have taken the refolution to come and beg you, with all due hamility, to aecept me for your fpoufe." She afterwards addreffes the father and mother in words to the fame effect; and folicits them earnefly to confent to the marriage. If fhe meets with a refufal, or apoIogy, fhe anfivers, that fle will not quis the houfe, till flac thall have married the object of her love." Sumetimes the parents perfift in their refufal ; but if the girl be obftinate, and have patience to flay a fers days or weeks in the houfe, they are not only forced to give their confent, but frequently to perfuade their fon to marry her. Befides, the young man is ge erally moved by her perfeverance and affection, and gradually accuftoms himelf to the idea of making her his wrife; fo that the young female peafants of the Ukraine feldom fail of being provided with a hufband to their mind, if they do but polfefs a tolerable thare of conflancy. There is no fear of their being obliged to lenve the houfe of the youth whom they prefer; the parents never think of employing force, becaule they believe, that by fo doing, they fhou'd draw down the vengeance of heaven upon their heads; and to this confideration is added, the fear of offending the girl's family, who would not fail to refent fuch behaviour as a grierous affiont.
the Ukrainc, gives the peafonts a dance before his door, and joins in it himfelf, with his wives and childrenf. (Let it be obferved, that moll of the villages in the Ukraine are forrounded with thick woods; in which the pealantry conceul themielves in the fommer, when afraid of a vifit from the Tartars). Although the peafants are ferfs, they have pofitifed from time immemorial, the right of carrying off any young woman they like from the dance, not excepting even the daughters of their lords, provided they do it with fofficient dexterity; for oinerwife their lives pay the furfeit of their temerity. On thefe occafions, they watch an opportunity of leizing their prey, and hallen to conceal themfelves in the thickeft parts of the neighbouring woods. If they can find means to flay there 24 hours undilcorered, the rape remains unpunihed, and they are at liberty to marry the young woman, provided the conlents, but if taken before that time expires, they are beheaded without farther ceremony.

On Eafter Monday, early in the morning, the young men afimble in the itreets, lay hold of all the young girls they mest with, and pour five or fix buckets of water on their heads. This foort is not permitted later than 12 o'clock. The day after, the giik take their revenge; but as they are inferior in ftrength, they are forced to have recourfe to ftratagern. They hide themfelves five or fix in a houfe, with each a jug of water in her hand, a litte girl ftanding fentry, and giving the figmal, when fhe fees a young man apiruach. In an inflant the others rulh out ; larround him with loud acclamations; two or three of the frongelt lay hold on him ; the neigltbouring detachments arrive, and the poor devil is almolt drowned with the torients of water that are poured upon his head.

The men have allo another amufement on Eafter Monday. They meet in the morning, and go in a body to the lord of the manor, to whom they make a prefent of fowls, and other poultry. The lord, in return, knocks out the heäd of a cafk of brandy, places it in the court-yard, and ranges the peafants around. He then takes a large ladle, fils it, and drinks to the eldeft of the company, who pledges him ; and thus it paffes from hand to hand, and from mouth to mouth, till the calk is empty. If this happens at an early hour, the lord fends for another, which is treated in the fame way; for he is bound to entertain the peafants till funfet. But as foon as the fun finks beneath the horizon, the fignal of retreat is given ; and thofe who are able walk away. * Monthly The reft pafs the night in the open air; and in this Magazinc, manner, fome have been known to fleep for upwards of rol. ill p. 24 hours *.

We have already given a general account of the Kri- Tartais , if mea and its inhabitants. See Crimea ( 0 ). We Thallicktimea. here
( 0 ) The ifthmus by which the peninfula of the Krimea is connected with the main land, is commanded by a furtrefs called by the Ruffians Perekop, i. e. an enirenchment of the ifthmus, and by the Tartars, Or-Kapi, the gate of the fortification. As this fortef's has been mentioned only in a curfory manmer, in our article $\mathrm{C}_{\text {RI- }}$ MEA ; and as, from its commanding the entrance into the Krimea from the main land, it is a place of great importance, we flall here give fome account of it from the travels of Profffior Pallas.

The only e rance into the Krimea by land is over a bridge, and through an arched ftone gate, both ereeced at the fide of the fortrefs. Contiguous to the gate, in an eattern directlon, and within the precinets of the foffe, is thie fortrels of Perckop. This is a model of irregular fortification, which, together with the walls of the deep ditch;

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Rutin here add forme intereiting particulats refpocing the K:i-
nacan laziars, from Protefior Pallas.

The Krimea is inhabited by three claffes of Cartars.
The sint of thefe are called Nasays, and are a remuant of that numerous horde which was lately diplinguithed by the name of Kubanian Tartars, as they formerly occulid the ditrict of Kuban, to the eut of the fea of Azuf. Thete Nagays, like their kivimen in the neighArut. Nod of Nount Caucafus, live in imall huts conftructed of feit, the largeit of which are trom 4 to 5 s archines in diameter, and cannot be taken to pieces, but
are placed by two men on carriages, and thets removed archines in diameter, and cannot be taken to pieces, but
are placed by two men on carriages, and theis removed from one place to another. They have a vent hole for an outlet to the fmoke; and to this is ayplied a cover with a handle, from which a line is fulpe del, for the with a handle, from which a line is fupe of occalionally cloting and ope fing the aperture. Mats of reeds and wooden work, much withered and finoked, are employed to line the fides of the hats; for as tuele trives are deltitute of timber. they are ouliged to purchafe it from Taurida at a confiderable expence.

The dre's of the men confifts of fheep flains, and a coarle kind of cloth, with imall round cains, made of lamb \&kins, and reaching no lower than the ears. The women are dreiled in clofe velts, over which is worn a luofe Howing gown with hanging lleeves. The gills geloofe flowing gown with langing lleeves. The girls ge-
nerally wear Circalian caps, and married women have their heads covered with a veil. To their thoes are
fometimes attached crols pieces, fo as to raife them their heads covered with a veil. To their fhoes are
fometimes attached crol's pieces, fo as to raife them coniderably from the ground.
In conformity with the ufage of all Afratic nations, a
kalim or marriage portion, confffing, among the opulin, of 42 mares, two hoifes completelly caparifon:ed, a leit of armur, a gun, and a fabre, is delivered up to the father of the bride on the celeuration of the nuy. tials. The language of the Nugay's is laid to vary in many refpects from that focken in laurida, which'latter is a 'Turkihh dialect. 'Thefe people poffels more activity and vivacity than the inhabitants of 1 aurida, but they are alfo more rapacious and ungovenrable, and retain a ftrong predilection for a wandering life. In fummer they travel wi h their flocks alorg the banks of the ri ulcts, where they fow wheat and millet in remote places, and neelect all further cultivation till the tifue of ha veft. On the return of winter they again approach the fea of Azof, near which they find gials preferved for furage, and perhaps a remaining fuppiv of that hay which they hod formerly made in the valleys.

T e features of thefe people thow them to be the unnised defiendants of the Mongclian 'Tartars, who formed the bulk of the army of Tichinghis-khan, which invaded Rullia and the Krimea.

The lecond clafs of the Krimean inhabitants confifs of thofe Tartars who inhabit the heaths or fteppes, as far as the mountains, efpecially on the north fide, and who in the dittrict of Perekop, where they are ltill unmixed, retain many traces of the Mongolian courtenance, with a thinly fcattered beard. They devote themfelves to the rearing of cattle, to a greater extent than the mountaineers, but are at the fame time hufbandmen, though they pay no attention to gardening.
is conftructed eutirely of free ftone. It forms an oblong fquare, extending along the trench which terminates the line of defense. On the fide adjoining this line there are no outwork; but on the other three fides the fort is frengthesed by an additional deep foffe, the whole amounting to ${ }_{5} 8$ fathoms in length, and 85 in breadth, computing from the foffe of the line. At the north-weflern angle there is a pentagonal ballion, ferving as an outwork; another of a hexagonal form on the fouth-weft, and a third with two angles at the fouth-eaft; but at the north-eaftern angle the hexagonal baftion is farther extended into the foffe, fo as to cover a narrow pafiage leading to a deep and excellent fipring, that rifes between this ditch and the interior forification. The chief entrance into the fortrefs is near the fouthern curtain, on the fide of which a projecting demibaftion has been ereeted ; but another outlet has been contrived at the eaftern extremity.

The boufes of the fuburbs of Perekop were formerly difperfed in a very irregular manner on the fouthern fite of ${ }^{-}$ the fortrefs, but they are at prefent fituated at a diftance of three verfts within the country. In the vicinity of the gate, however, there are only a few houfes, partly within and partly without the line, inhabited by Ruffin officers appointed at the falt magazine, or by thofe belonging to the garrifon. Since the year 1797, the garrifon of Perekop has been confiderably increafed.

Although the Krimea is at prefent united to Ruffia, Perekop will, on many accounts, always remain a poit of the greateit confequence ; in fome refpects to Ruffia, and in others to the Krimea. If, for inftance, the plague fhould ever fpread its baneful influence into Krim-Tartary; an event which the conflant trade carried on with Conftantinople and Anatolia, may eafily produce; or, if feditious commotions fhould arife among the Tartars, whofo loyalty is fill doubtful; in thefe cafes Perekop would effectually fecure the empire, by clofely flutting the barrier. On the other hand, this fortrefs not only renders every attempt at defertions from the Krimea into Ruffia very difficult; but if, in future, the project of opening free ports fhould he realized, and thus the important commerce from the Black fea to the Mediterranean and to Anatolia, be vigoroufly promoted, Perekop would then afford the moft convenient fiteation for a cuftom houfe. Farther, if the beif ports of the Krimea were appointed, in the fame mannet as th fe of Toulon and Marfeilles have teen fetected for'all the fouthern parts of France, in order to eltablifh places of guarantine for all hhips navigating the Black fea and that of Azof, fo that all veffels deflined for Taganrok, Kherfon, and Odeffa, fhould be obliged to perform a certain quarantine at Sevaftopol, Theodofia, ahd Kertlk, as has already bcen twice propofed; the important pafs of Perekop would for ever fecure the open and more populous provinces of the interior parts of the empire from that terrible fcourge, the plague. Thus, all danger might be obviated, not only frum the fea of Azof, the coafts of which are in every direction expofed to the con: tagion, fo that they can with dificulty be protected; but alfo from the poits of Kherfon, Nikolaef, and Odeffo At the fame time, the expence of maintaining various places for nuarantines mi ht be greatly reduced, and cumplete inflitutions of this nature be freedily eftablidied. Sce.Pallas"s Trovels, vol. ii. p. 5 .

Rufia. In fituations deftitute of ftone, they build with unbaked bricks of clay, and make ufe of dry dung as fuel. Of this they prepare large quantilies, and pile it up into ftacks like peat or turf, to ferve them during wiater. Nearer to the mountains, thefe Tartars, as well as tize nobles, are more intermixed winh the Turkilh race, and exhibit few of the Kalnuk Mongolian features. This is particularly tise cale with the Krimean nobility, in whom thele peculianities of feature are almuft entirely obliterated. See Pallas's Travels, Yol. II. Plate 21.

The third clafs of Krimean 'Tartars comprehends the inhabitants of the fouthern valleys, a mixed race, which feems to have originated from the remnants of various nations crowded together in thefe regions at the conqueft of the Krimea by the armies of the Mongolian leaders. Thefe people generally difplay a very fingular countenance, having a ftronger beard, but lighter hair, than the otber Tartars, by whom they are not confisered as true defcendants of the Tartar race, but are diftinguifhed by the contemptuous name of Tat (or renegado). By their coftume they are remarkably diftinguifhed from the fecond clafs, or heath Tartars; the men among thefe latter wearing outer garments very like the loofe coats or jackets worn by the European peafants, with round clofe caps; while the Tartars of the valleys wear the ufual eaftern drefs, with turbans. The drefs and veils of the women are, however, alike in both claffes. See Pallas's Travels, Vol. II. Plates x2,20, and 22. Their houfes or huts are partly under ground, being generally conftrueted againft the fleep precipices of mountains, with one half excavated from the earth or rock, and only the front raifed with rough fones. They have alfo a flat roof covered with earth.

There are among thefe people fkilful vinedreffers and gardeners, but they are too indolent to undertake new slantations, and avail themfelves only of thofe trees which have been left by their predeceffors. They alfo cultivate flax and tobacco; objects of culture which are unknown to the Tartars of the heaths.

In the coflume of the Tartars inhabiting the plains, there is fome variety. Young perfons, efpecially thofe of noble or wealthy families, drefs nearly in the Circaffian, Polifh, or Kozak fafhion, with flort or flit fleeves in the upper garment. The nobility of more advanced age wear unflit fleeves like the common Tartars; and old men fuffer the whole beard to grow, whereas the young and middle-aged wear only whikers. Their legs and feet are dreffed, in half-boots of Morocco or other leather, or they ufe ftockings of the fame material, efpecially in the towns; and over thefe are worn Alippers or cloge, and in dirty weather, a fort of ftilt Shoes, like thofe defcribed in the drefs of the Nagays. Their heads are either entirely flaved, or have the hair cut very fhort, and they wear a high cap, gencrally green, edged with black or gray lamo $\mathbb{0 k i n}$, and quilted at the top with catton. This cap is never moved by way of compliment. Thofe who have performed their pilgrimage to Mecca, are diftinguifhed by a white handkerchief round the ecige of the cap, this being the mark of a hadjsi or pilgrim.

The phyfiognomy of the true Tauridan Tartars bears a great rifemblance to that of the Turks, and of moft Europeans. There are handfome, lall, nobult people
amons thens, and few are inclined to corpulency; their complexion is rather fair, and their hair black or dark brown.

The drefs of the Tartar women of thefe two latter claffes is very dofferent from thet of the Nagays. They are in general of low fature, owing probably to the flate of confinement in which they are kept during the early part of their lives, though their features are toicrably handfome. I oung women wear wide drawers, a fiift reaching to their ancles, open before, and drawse together at the neck; a gown of itriped filk, with long fieeves, and adorned with broad trimmings embroidered with gold. They have alfo an upper garment of fome appropriate colour, with fhort thick Turkifh fleeves edged with gold lace, ermine, or other fur. Both girls and married women faften their gowns with a heavy girdle, having in front two large buckles of emboffed or filligree work, fuch as were formerly in fafhion among the Ruffian ladies at St Peterfourgh and Moico. Their hair is braided behind into feveral loofe treffes, and the head is covered, either with a fmall red cap, or with a handkerchief croffed below the chin. Their fingers are adorned with rings, and their nails tinged of a reddifh-brown colour, with a dye ftuff called kna (derived from the lavifonia) imported from Conftantinople for that purpefe. Paint is rarely employed by young women.

Married wormen cut off their hair obliquely over their eyes, and leave two locks alfo cut tranfverfely, hanging down their cheeks; they likewife bind a long narrow ftrip of cloth round the head, within the ends of which they confine the reft of the laar, and turn it up from behind, braiding it in two large treffes. Like the Perfians, they dye their hair of a reddifh brown with kna. Their under garment is more open below, but in other refpects fimilar to that of the unmarried women, as are their upper drefs and girdle. They paint their faces red with cochineal, and by way of white paint, they ufe an oxide of tim, carefully prepared in frall earthen pipkins over a dung fire. They allo dye the white of the eye blue, with a preparation of copper finely pulverifed; and by a particular procefs they change the colour of their hair and eycbrows to a thining black, which is retained for feveral months. At weddings, or on other folcmn occafions, the wealthy females further omament their faces with flowers of gold leaf, colour their hands and feet, as far as the wrifts and ancles, of an orange hue; and deftroy all the hairs on the body with a mixture of orpiment and lime.

Both married and fingle women wear yellow halfboots or flockings of Morocco lesther; and for walking they ufe red flippers with thick foles, and in dirty weather put on filt fhocs. Abroad, they wear a kind of undrefs gown of a loofe texture, manufactured by themfelves of white wool; wrap feveral coloured Turkey or white cotton handkerchiefs round their heads, and tie them below the chin; and over all they throw a white linen cloth reaching half way down the arms, drawing it over the face with their right hand, fo that their black eyes alone are vifible. They avoid as much as poffible the company of men, and when they accidentally meet a man in the ftrect, they avert their face, or tuin towards the wall.

Polvgamy rarely occurs, even among the nobles, and more weahly inliabitants of the towns, yet there are

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Rusine-fome parfons in the villaces, who encumber themfelves with two wives. Male and f:male fiaves are not comuron in this country; but the nobility fupport numerous idle attendants, and thus impoverih theis eflates; while their chief pride confits in rich and beautiful apparel for themfelves and their vives, and in handlome equipages fur riding to town, being accompanied by a tasin of domeftics, who follow them on every exsurfion, thongh the chief employment of the latter is that of giving their mafter his pipe at his demand, flanding in his prefence, or affifing him to drefs, and, in all other refpeets, living in the lame indolent manner as their lords. Another fource of expence is the purchafe of elergant fwords, and efpecially of excellent blades; the diftinction between the different forts of which, together with their names, confitute among the nobles a complete fcience. They are alfo great admirers of beautiful and collity tobacco-pipes, together with expenfive mouthpieces of milk-white amber, that ere likerrife ufed by the Turks, and of tubes of curious woods; but the kallian, or the pride of the Perfians, is farcely known here ; and the Tartars employ only fimall ornamental bowls made of clay, which are alnolt every moment flled with fine-cut leaf-tobacco. The generality of thefe noble lords, or Murfes, were fo ignorant, that they could neither read nor write; and inftead of figning their names, they fubltitutad an impreffion of their rings, on which a few Turkifh words are engraven. Some of the young nobility, however, are beginning to fludy not only the Ruffian language, of which they perceive the necefinty; but alfo apply themflves more feduloufly to reading and writing, and thus become more civilized. The expence of wearing apparel for the women thut up in their harems is, according to their manner and fortune, little inferior to that of Europeans; with this fingle difference, that the fathions among the former are not liable to change. Even the wives of the common Tartars are fometimes drefied in filks and fuffi, embroidered with gold, which are imported from Turkey. In confequence of fuch extravagance, and the extreme idlenefs of the labouring clafies, there are very ferv rrealthy individuals among the Tartars. Credulity and inaetivity are the principal traits in the Tartar cbaracter. To fit with a pipe in thcir hands, frequently without froking, for ruany hours, on a thady bank, or on a hill, though totally devuid of all tafte for the beauties of nature, ard looking ftraight before them; or, if at rork, to make long pauses, and above all to do nothing, conffitute their fupreme enjoyments; for this mode of life, a foundation is probably laid by cducating their boys in the harems. Huating alone occafionally excitcs a temporary acivity in the Mor!cs, who purfue their prey with the large feecies of greyhound, very common in the Krimea; or with falcons and hawks.

The language and mode of writing of the real Tartars differ little from thofe of the Turks; but the language of the Nagays deviates confiderably from that of the other Tartars, as they have retained numerous Mongolian plirafes, and make ufe of arr ancient mode of writing called fiagahat:

The food of the Krimean Tartars is rather artificial for fo unpolifited a nation. Among the moft efteemed delicacies are, forced meat-balls wrapped in green vine or forrel leaves, and called farma; varicus fuits, as cu-
cumbers, quinces, cr apples, filled with riincell meat, Wina; fluffed cucumbers; dithes of melons, badil/ban, and hityicas efexlentus, or banvia; prepared in various ways with filices or fation; ail of which are ferved up with rice ; allo pelaw, or ries, boiled in meat-broth, till it becomes dry; fat mution and lamb, both boiled and roaited, \&c. : colt's Pefh is likewife confidered as a dainty; and horfe flelh is more commonily eaten thy the Na gays, who are alll attached to their ancient cuftom. The Tartars razely kill horned cattle: mutton and goat's flefly comatitute the food of the common peonle, efyecially in the country, together with preparations of miik and eggs; butier, (which they churn and preferve in the dry flomachs of oxen) ; a kind of pelaw, made either of dried or bruifed unripe wheat, and which they call bulgnr; and, laftly, their bread is generally compofed of mixed grain. Their ordinary beverage is made by triturating and diffolving cheefe in water; the former of which is called $y \curvearrowleft /$ ma, being prepared from coagulated milk, or yurgurt; but the fahionable intexicating drink is an illi-tafted and very ftrong beer, or bufa, breved of ground millet. Many perfons alfo drink a fpirituous liquor, arraki, which the Tartar mountaincers diftil from varions kinds of fruit, particularly plums. It is alfo, extracted from floes, dogberries, elder-berrics, and wild grapes, burt never from the common cherry. They likervile boil the exprefied juice of apples and pears into a kind of marmalade, betemefs, of the confiftence of a fyrup, or that of grapes into nardenk, as it is called; the latter preparation is a favourite delicacy, and eagerly purchafed by the Tartars of the fleppes; hence great quantitics of it are imported in deal cafks from Anatolia, at a very cheap rate, for the purpofe of converting it into brandy.

In confequence of their temperate, fimple, and carelefs habits, the warm clothing which they wear throughout the fummer, and the lithle fatigue which they undergo, the Tartars are liable to few difeafes, and, in particular, are generally exempted from the intermittent and bilious remittent fevers which commonly prove fo fatal to foreigners and new fettlers in the Krimea. Indeed, few diforders, except the itch and rheumatifm, prevail among them, and many of them attain to a vigorous old age. The true leprofy, which is by the Ural Kozaks termed the Krimean difeafe, never occurs in this peninfula *.

As a miftrefs-market muft be a curiens fubject to the ${ }_{233^{\text {Travels. }}}^{2 \mathrm{~S}^{2}}$ polifhed nations of Europe, twe thall give a fpecimen Market for of the manner in which it is carried on at Theodofia, in Cirrafifian the trords of Mr Keelmany, a Geeman merchant, as re--Thees at lated by Mirs Guthrie. "The fair Circaffians," fays Mr Keciman, " of whom three were offered me for fale in 1768 , were brought from their own chamber into mine (as we all lodged in the fame inn), one after another, by the Armenian merchant who had to diffofe of them. The firit was very well drefled, and had her face covered in the oriental flyle. She kiffed my hand by order of the mafter, and then waiked backwerd and forward in the room, to fhew me her fine fhape, her pretty fmall foot, and her elegant carriage. She mext lifted up her veil, and atfolutely furprifed me by her extreme beauty. Her hair was fair, with fine large blue eyes, her nofe a little aquiline, with pouting red lips. Her features were regular, her complexion fair and delicate, and her cheeks covered with a finc natu-

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ral vermilion, of which fhe took care to convince ne by rubbing them hard with a cloth. Her neek I thought a little too long; but, to make amends, the fineft botom and teeth in the world fet off the other charms of this beautiful thave, for whom the Armenian alked 4000 Turkilh piaftres (about 800 l . Aterling), but pernitted me to feel her pulfe, to convince me the was in perfect health; after which the was ordered away, when the merchant alfured me, that the was a pure virgin of 18 years of age.
" I was more furprifed than 1 ought to have been, at the perfect indifference with which the inhabitants of Theodofia beheid this traffic in beauty, that had fhocked me fo much, and at their affuring me, when I feemed affected at the practice, that it was the only method which parents had of bettering the fate of their handfome daughters, defined at all events 10 the haram; for that the rich Afiatic gentleman who pays 4000 piattres for a beautiful miftrels, treats and prizes her as an earthly houri, in perfect conviction that his fuccefs with the houris of Paradife entirely depends on his behaviour to the fifterhood on earth, who will bear tellimony againft him in cafe of ill ufage; in fhort, that, by being difpofed of to rich nufliumans, they were fure to live in affluence and eafe the reft of their days, and in a tate by no means degrading in Mahometan countries, where their prophet has permitted the feraglio. But that, on the contrary, if they fell into the hands of their own feudal lords, the barbarous inhabitants of their own native mountains, which it is very d:fficult for beauty to efcape, their lot was comparatively wretched, as thofe rude chieftans have yery little of either refpect or generofity towards the fair fex *."

RUST, the calx or oxide of a metal, iron, for inflance, formed by expofure to the air, or by corroding and diffolv- ing its fuperficial parts by fome menftruum. Water is the great inttrument or agent in producing ruft : and hence oils, and other fatty bodies, fecure metals from ruft; water being no menftruum for oil, and therefore not able to make its way through it. Almoft all metals are liable to ruft. The ruft of inon is not merely an oside of that metal ; it contains belides a portion of carbonate.

RUSTIC, in Architefure, implies a matuner of builling in imitation of nature, rather than accoriing to the rules of art. See Archinecture.

Reatic God's, dii ruflici, in antiquity, were the gods of the country, or thofe who prefided over a griculture, \&r. Varro invokes the 12 ditic confentes, as the principal among the rullic gods; viz. Jupiter, Tellus, the Sur, Moon, Ceres, Bacchus, Rubiguc, Flora, Minerva, Venus, Lympha, and Good Luck. Befides the Fe 12 arch ruftic gods, there were an infinity of lefier ones; as Pales, Vertumnus, Tutelina, Fuigor, Sterculius, BIellona, Jugatisus, Collinus, Vallonia, Terminus. Sylvanus, and Priapus. Stiuvius adds the Satyrs, Fauns, Sileni, Nymphe, and even Tritons; and gives the cropire over all the rultic gods to the ged Pan.

Ressic Order, that decorated with ruftic quoins, ruftic work, \&c.

RUSTIC Work, is where the fones in the face, \&c. of a building, in.lead of being fmooth, are hatched, or picked with the point of a hammer.

RUSTRE, in Heraldry, a bearing of a diamond flape,
pierced through in the midale with a round hole. Sue Heraldry.
RUI, in hunting, the venery or copulation of deer.
RU'TA, RUE; a genus of plants beloniging to the decandria cl:1s; and in the natural method rat aing under the 26 hh order, Mumfiliquac. See Botaxiy Ind. $x$.
liue has a throng ingrateful fmeil, and a bitterifh penetrating talle: t.e leaves, wi.en fuli ci vigour, are extremeiy acrid, infomuch as to inflame and blitier the fkin, if much banded. Witio regard to their medicinal virtues, they are powerfully llimulating, atlenuating, and detergent; and hence, in cold phic, matic habits, they quicken thie circulation, diffolve teracious juicus, open obitructions of the excretory glands, and prumote the fluid fecretions. The writers on the materiz mecica in general have entertained a very high opinion of the virtues of this plant. Boerhaave is lull of its praifes; particularly of the effential oil, and the dinfiled water cohobated or re-ditilled feveral limes from freft paxcels of the herb. After extravagantly commending other waters prepared in this manner, he adds, with regard to that of rue, that the greatelt commendations lie can beflow upon it fall flort of its merit : "What medicine (fays he) can be more efficacious for promoting fweat and perfpiration, for the cure of the hyitturic pafficn and of epilepfies, and for expelling poifon ?" Whatever fervice rue may be of in the two laft cales, it undoubtedly has its ufe in the others: the cohobated water, however, is not the molt efficacious preparation of it. An extract made by rectified firit contains in a fmall compafs the whole virtues of the ree; this menfroum taking up by infufion all the pungency and thavour of the plant, and elevating nothing in diffillation. With water, its peculiar flavcur and warmth arife ; the bitterncfs, and a confiderable flare of the pengency, remaining behind.

Rlta Bcea, or Swedif turnip. For the mode of cultivation, fiee Agriculture Index.

Book of RUTII, a canonical book of the Old Teffament; being a kind of appendix to the book of Judges, and an introducion to thofe of Samuel ; and having its title from the perfon whofe flory is here paincipally related. In this thory are obfervable the ancient rights of kiadred and redenytion; and the mamner of buying the inheritance of the diceaied, with oth:cr particulars of great note and anticuily. The canonicalnefs of this book was never difpukd; but the learned are not agreed about the epocha of the hiffory it relates. Ruth the Moabitefs is found in the genealcgy of our Sasiour. Nath, i. 5 .
hutilus. See Cyprixes, Ichthyonocy Index:
RUTHERGLEN, or by contraction Ruclpn, the head borough of the ncther ward of Lanarkhire ia Scotland, is fituated in N. Lat. $55^{\circ} 51^{\prime}$, and IW. Long. $4^{\circ}{ }^{1} 3^{\prime}$; about two miles fouth-caft of Glafgow, and nine wefl of Hamilton. Few towns in Scotland can lay greater claim to antiquity than Rutherglen. Maitland, in his Hi²?ry of the Antiquities of Sce tlind, vol. i. p. 92. tellis us, that it was founded Ly a King Reuther, from whon it c'erived its name; and a tradition of the fame impurt previli's among the inhabitants. But wilhout laying ary firefs on the authority of tradition, which is often falfe and always doubfuif, we find, from feveral orioinal clarters flill preferved, thist it was erected into

## $R$ U T [ 425$] \quad R$ U Y

Suther- a royal borough by King David I. Sout the year $p i \mathrm{n}$. 1126.

Y e ter it ory under the jurifulion of the b-rourg was eves ve, and the inloritants enjoyed many di ing.in'ed priviteges, which ivete sowever gradually nteltc.1 for them, by politic:1:. .e ce, in fav ar oi G1.f. gow, which in latter timos rote into coniequence by rave and manufactures. $\quad 1 .:$ an ient dimen fions of the place are now unhnown ; but in the fields and ghadens towa.ds the eat the foundations c: houles aic occafi noa'ly difcovered. It is now of a ve:, reduced fize, confiling but of one principal: reet anid a ferv lanes, and contrining ab, ut $16_{3} r$ inhabitants.

About 150 yaxdis to the fouth of the main flreet is a kind of latae, known by tre name of Dins-dyke. A circum tance whict befel he unfortunate Xueen Muy, immediately atier her forcos were routed at the isatlie of Langfide, has ever fince continued to charicurile this place with an indelible mark of opprobrium. Her majeily, during the batcle, ttood on a rifing ground about a mile from Rutherglen. She no fooner faw her army defeaied than fie took her precipitate llight to the fouth. Dins-dykes unfortumately lay is her way. Two ruftics, who were at that intant cutting grafs hard by, feeing her majefly fleeing in hafte, rudely attempted to intercept her, and threatened to cut her in pieces with their fcythes if itie prefumed to proceed a ftep further, Neither beauty, nor even royalty itfelf, can at ail times fecure the unfortunate when they have to do with the unfeeling or the revengeful. Relief, however, was at hand; and her majenty proceeded in her flight.

Adjoining to a lane called the Back-row ftood the cafte of Rutberglen, originally built at a period coeval, it is reported, with the foundation of the town. This ancient fortrefs underwent feveral fieges during the unhappy wars in the days of King liobert Bruce, and it remained $a$ place of frength until the batte of Langfide ; foon after which it was defroyed by order of the regent, to revenge himfelf on the Hamilion family, in whole cuffody it then was. The foundations of the buildings are now erafed, and the fite converted into dwelling-houfes and gardens.

The church of Rutherglen, an ancient building of the Saxon-Gothic fiyle, was rendered famous by two tranfactions, in which the fatc of Sir William Wallace and bis country was deeply concerned. In it a truce was concluded between Scotland and England in the year 3297 (Henry's Life of Wallace, book vi. verfe 862.), and in it Sir John Monteath bargained with the Englifh to betray Wallace his friend and companion (Life of Wallace, book xi. verfe 796.). This ancient building, lhaving become incommodious, was, in 1794 , pulied down, and one of a modern ftyle was erected in its place. Buried in the area were found vaft quantities of human bones, and fome relics of antiquity.

No borough probably in Britain poffefes a political conflitution or fett more free and unembarraficd than Rutherglen. It was anciently under the influence of a felfelected magilitacy, many of whom lived at a diftance from the booough, and who continued long in office without interruption. Negligence on the one hand, and an undue cxertion of power on the other, at length excited the burgefice, about the roiddle of the lat century, to : polly an effectual remedy to this evil. The commu$n$ y who, at that petiod, poffred the power of reformCI XIIII. Part II.
ing the abuics that had long prevanied in the manarement of the borough, wee mach affited in their ex rti. s by a Mr David Spens, to...n clek, . bific jan u ited ty falte poluice, and who in 5 d. ninald wi h a ingh degree of true patriouifm. Gicat on ition: wns at fult made to thic reform ; but the, an ado $L .4$ by $t=$ burg is was wheiy laid, and was p.\%. catc! whth unre. miting alfiduity. ilbey were proof: wit ihe influence and brivery of a party that Itrug led oco hue the oid practice; and having at length furn: uanced every difi. culty, they formed a new contiturion of fert fo e e, rough, which, in 167 r , was approved of wy all the inhabiants of the town, and afterwards inforei in the re. cords of the general convention of the roy.: \%rorgh.s at Scotland.

Rutherglen, in conjunction with Gle - . w . Renf . . N , and Dumbarton, Cends a mem ser to the Bithin pro .a ment. The fairs of this own are generaliy wail :c.etid. ed, and have long been i mous for a grea thow : it . of the Lamarkhire breed, which are e eeme i the wot draught-horfes in Briain. The inhavitants 1 : inis If rough fill rotain forne cuthoms of a very remote ant quity. Oze of thele is the making of Rutherglen fois cakes. The operation is atten ed with fome peculi. $r$ rites, which lead us to conclude that the practice is of Yauan origin. An account of thele rites is given in Uie's Hittory of Rutherglo and Kilbride, P. St.; froriu whence we have taken the above account of this place, and which we do not hefitate to recommend to the attention of fuch of our readers as are fond of natural and local hiftory, being perfuaded that they will find it to be both an ufeful and entertaining performance.

FUULLANDSHIRE, is the fmalleft county in England, being but 40 miles in circumference; in which are two towne, 48 parihhes, 3263 houfes, and $: 6,356$ inlabitants. However, for quality it may be compared with any other county; the air being good, and the foil fertile both for tillage and paftures; and it not only affords plenty of corn, but feeds a great number of horned cattle and flitep. It is well watered with brooks and rivulcts; and the principal rivers are the Weland and the Wath. It is bounded on the enf by Lincolnhire; on the fouth by the river Weland, which parts it from Northampton@lire; and on the welt and north by Leecefterhhire. It has only two market-towns; namely, Okelnam, where the affizes and fellions are held, and Uppingham.

RUYSCH, Frederic, one of the moft eminent anatomifs of which Holland can boaft, was born at the Fiague in 1638 . After making great progrefs at home, he repaired to Leyden, and there profecuted the fludy of anatomy and botany. I le fudied next at Franeker, where he obtained the degree of doator of phyfic. HIe then returned to the liague; and marrying in 166 r , dedicated his whole time to the ftudy of his profetion. In 1665 he publifhed a Ireatife, entitled Dilucidatio va!vularum de variis lympleticis of la tisis; which raifed his reputation fo high, that he was chofen profetfor of anatomy at Ainfterdam. This honour he acecpted with the more pleafure, becaufe his fituation at $A$ mifterdam would give him caly accels to every requifite help I r cultivating anatomy and natural hiftory. After he fetthed in Amferdam, he was perpetually engage in dilfecting and in examining with the moft incquifitive eye the various parts of the human body. He improved thic

Ru*!.er
$\underbrace{\substack{\text { gica } \\ \text { R } 1+f^{2}}}$

## $R \cup\left[\begin{array}{lll}42 \sigma\end{array}\right] \quad$ R Y E

fue--se of anatomy iy new dicoveries; in particular, he :ounin out a way to freferve dead bodies many years ican putref..dio:1. Hus anatomical collcection was curiows end valuaralc. IIe hud á feries of feetufes of all fizes, from the leneth of the lithe firm er to that of a new-wen infant. He bad alio bodies of full gromn perWhe of liazek, ama a vait number of animals almof of every pecies on :..e givabe, befides a great many other natatal curic ; ies. Peter the Great of Ruffia, in his to.ar throu an Huland in the year 1698, vifited Ruyfch, and was 10 charmed wuth his conventation, that he paffed whole days with him; and when the hour of departure came, he leit him with regre:. He fut fo ligh a value on Ruyfch's catinet of curiofities, that when he returned io Holland in ${ }^{17} 717$, he purchaled it for 30,000 Qurins, and fent it to Peterburgh.

In 1605 he was made profelor of mellicine, an office which he dificharged with great ability. In 1728 he got his thigh-bone broken by a fall in his chamber. The year before this misfortune happened he had been deptived of his fon Henry, a youth of talents, and well fkilled in mnatomy and botany. He had been created a doelor of phyfic, and was fuppofed to have affited his rather in his difcoveries and pubiications. Rayfch's $f_{3}$ mily now coafficed only of his youngef daughter. This ladt had been early inipired with a paftion for anatomy, the favourite fcience of her ether and brother; and had iluden 1 it with fuscefs. She was therefore well qualificd to afiit her tather in forming a fecond collection of curiouties in natural hiilory and ana!omy, which he began to make after the emperor of Ruflia biad purchafed the firlt. Ruyfch is faid to have been of fo liealthy a confitution, that though he lived to the age of 93 , yet during that long period he did not labour under the infimities of difeafe above a month. From the time be broke his thigh he was indeed difabled from walking withou- a fupport; yet he retained lis vigour both of mind and body without any fenfible aite ation, till 3 ${ }^{3} 73^{1}$ his frensth at once deferted him. He died on the 22 d of February the fame year. His anatomical works are primed in 4 vols 4 to.
The fole of his writings is fimple and concife, but Stav in es inaccurate. Imfruction, alrd not offentation, teens to be his only aim. In anaiomy he undoubtedly made mawy dicowrics; but from not being fuffiently convertant in the writings of other anatomifts, he pubinhed as diforsries what had been known before. The Acariag of Sciences at Paris in 1727 eleted him a mem'er ia place of Sir lface Newton, who was lateiy deceafed. He was alfo a member of the Royal Soric y of L rdon.

FUYSCHIA, a genus of the menogyria order, beloncing to the pentandria clafs of plants; s.xi in the natural method ranking with thope that are coivifui. See Borany Inder.

RUY IIR, Michael Adrian; a dīingulhed nayal eff cr, was born at Fleflingue, 3 town of Zeala ad, in 1 ro-. He entered on a feafutio, life when he was on'y 11 yers old, and was firft a c-bin-buy. Whiie he advanced fuccefiveiy to the rank of mate, mafter, and captain, he acquitted himfelf with ability and honour in all thefe employments. He repulfed the Irifh, who attempted to take Dublin out of the hands of the Eng. lifh. He made eight voyages to the Weft Indies and ten to Brazil. He was then promoted to the rank of
reaz-adrai...il, and ient to affin the Iortuguefe againh Ruyter, the Spaniards. Whan the enemy came in fight, he advanced boidly to meet them, and gave luch unqueftionable proots of valour as drew from the Portugueie monarch the warmelt applaufe. His gallantiy was $1: 1 / 1$ more coulpicuous before Sillee, a town of Barvary. Wuh one fingle veffel he failed throukh the roads of that place in defiance of five Algerine corlairs who came to aitack lim.

In 1653 a fquadron of 70 veffels was difpatched againt the Englith under the command of Van Tromp. Ruyter, who accompanied the admiral in this expedition, feconded him with great fikill and bravery in the three battles which the Englifh fo glorioufly won. He was afterwards fationed in the Mediterranean, where he captured feveral Turkifh veffels. In 1659 he received a cominifion to join the king of Dermark in his war with the Swedes; and he not only maintained his former seputation, but even railed it ligher. As the reward of his fervices, the king of Denmark ennobled hime and gave tim a penfion. In 1661 he run afhore a veliel belonging to Tunis, releafed 40 Chrillian flaves, made a treaty with the Tunifians, and reduced the Algetine corfairs to fubmifion. His country, as a teflimony of her gratitude for fuch illuftrious fervices, railed him to the rank of vice-admiral and commander in clief. To the latter dignity, the higheft that could be conferred upon him, he was well intitled by the fignal victory uhich he obtained over the combined Hleets of France and Spain. This battle was fought in 1672 about the time of the conqueft of Holland. The battle was maintained between the Englifh and Dutch witio the ol, ilinate bravery of nations which were accuftemed to difptic the empire of the main. Ruyter having thus made himiclif mafter of the fea, conducted a fleet of indiamen faely into the Texel; thus defending and curiching his countiry, while it had become the prey of hoftile invader. The next year he had three engagements with the Heets of France and England, in wiich, if pofible, his bravery was fill more diftinguilhed than ever.D'Eftrces the French vice admiral wrote to Colbert in thefe words: "I would purchafe with my life the glory of De Ruyter." But he did not long enjoy the triumplis which he had fo honowrably won. In an engagement with the French fleet off the coaft of Sicily, he loft the day, and received a mortal wound, which put an end to his life in a few days. His corpfe was cartied to Amflerdars, and a magnificent monument to his memory wns there creeted by the command of the fates-general. The Spanith council benowed on him the title of duke, and tranfinitted a patent invefling him with that dignity ; but he died before it arrived.

When fonse perfon was congratulating Louis XIV. upon De Ruyter's death, telling him he had now got rid of one dangerous enemy; he replied, "Every one muf be forry at the death of fo great a man."

Fye. See Sefale, Botany Index; and alfo Agriculture Indea.

## Rre-Gra/s. See Agriculture Indic..

Rye, a town in Suffex, with two markets on Wednefdays and Saturdays, but no fair. It is one of the cinque-ports; is a handfome well-built place, governed by a mayor and jurats, and fends two members to parliament. It has a church built with fone, and a townhall; and confifts of three ftreets, paved with fone.

## R Y M

Rye, One fide of the town has been walled in, and the other Rymer. is guarded by the fea. It has two attes, and is a place
of confiderable trade in the hipping way. From thence large quantities of corn are exported, and many of the inhabitants are fifhermen. It is 34 milcs fouih eaft by fouth of Tunbridge, and $6+$ on the fame point from London. The mouth of the hartour is of late chckid up with fand ; but if weil opened, it would he a grod nation for privateers that cruize againt the French. E Long. O. 52. N. Lat. 51. 0.
RYMER, Thomas, Eiq. the author of the Fiediera, was born in the north of England, and educated at the granmer-fchool of Northallerton. He was adin: ited a ficholar at Cambridge, then became a member o: Gray's Inn, and at leng!h was appointed hiftoriogra;her to King William in place of Mr Shadwell. He wrole A View of the Tragedies of the laft Age, and Efterwards puolifhed a tragedy named Edgar. For a critic he was certainly not well qualified, for he wanted candour; nor is his judgement much to be relied an, who cerv d condemn Slakefpeare with fuch rigid feverity. His tragedy will hoow, that his talents for poetry were by no means equal to thofe whofe poems he has publicly cenfured. But though he has no title to the appellation of poet or critic, as an antiquarian and Fifori:n his memory will long be preferved. His Fadera, which is a collection of all the public tranfactions, treatics, \&ic. of the kings of England with foreign princes, is efleemed one of our moft authentic and valuable recorc's, an.d is oftener referred to by the beft Engliih hiftoriais than perhaps any other book in the language. It was publifhed at London in the begineing of thic prefent century in 17 volumes folio. Three volumes more were added by Sanderfon after Rvmer's death. The whole nere reprinted at the Hague in 10 vols in 1730 . Thes were abridged bv Rapin in French, anJ inferted in Le Clerc's Bibliotheque, a tranfiation of which was made by Stephen Waalley, and printed in 4 vols $8 \mathrm{vo}, 1731$.

Rymer died 14th December 1713, and was buried in the parih cliurch of St Clement's Danes. Some fpecimens of his poetry are prelerved in the firft volume of Mr Nichol's Select Cullection of Mifcellaneous Puems, 1780.

RYNCHOPS, a genus of birds belonging to the order of anferes. See Ormithoiogy Index.

RYOTS, in the policy of Hindoflan, the modirn name by which the renters of land are dinsuified. They biold their poffefions by a leafe, wich m"y be confidered as porpetual, and at a rate fixed ty ancien t furveys and valuations. This arrangement tis beet of long cffallifined, and ace rd, fo well wath the id. $s$ of the n:tives, eoncern ngs the d .inction of catis, an the functions allote d to ench, 14 at it has been invariably maintained in all a e pr ficecs iu ject cither to Ma! -
 on which heir whly he fatem ot fitance is founded.

Refpecting the pre in mode, lowerer, in which the
 civerfty of opi : ; ; the chict of which ase very impurtialy delineated in note iv. to the Appenc. $x$ of Tolertf $\because$ IH: ${ }^{2}$ orical IDifquifition, \& c. concerning India. p. 345. to which we refer tuch of our re:ders as are interelled in this fubject of finance.

RYSWICK, a larre vills e in Holland, feated hetween the Fi:gue and Deltu, where the prince of Orange has a pal..ce, which ftends about a quaster of a mile farther. It is a very moble flucture, all of hewn frone, of great extent in front, but perlia! 3 not poonortionsbly high. It is adorned wih a marble flaircafe, marble floors, and a magnificent terrace. There is a good profpect of it from the canal I etween Delit and the Hague. This place is remarkable for a treaty concluded here in 1697 hetween A. Igland, Germarv, Ho!land, France, and Spain. E. Long. 4. 25. N. Lat. 52. 8.

S$f$, or 5 , the 18 th letter and $4^{\text {th }}$ confonant of our alphaleet; the found of which is formed by driving the breath through a narrow paffage between the palate and the tongue elevated near it, together with a motion of the lower jaw and teeth towaids the unper, the lips being a little way open; with fuch a configuration of every part of the mouth and laryi $x$, as renders the voice fomewhat fibilous and hiffing. Is found, however, varies; heing firong in fome words, as thit, thus, \&c and foft in words which have a final e, as mufe, uife, \&cc. It is generally doubled at the end of words, whereby they become hard and harfl, as in kifs, bofs, \&c. In fome words it is filent, as ife, ifland, vif. count, \&c. In writing or priating, the long rharacter $f$ is generally ufed at the beginning and middle of words, but the fhort $s$ at the end.

In abbreviation, S ftands for focietas or Tocius; as,
R. S. S. for resic focietatis focizes, i. e. fellow of the royal fociety lu medicinal prefcriptions, S. A. fi, mifies fecundum artom, i. e. according to the rules of art: And in the notes of the ancients, S flands for Sextus; S. P. for Spurius; S. C. for fenatus confultum; S.P.Q.R. for fonctus populufque Romanus; S.S.S. for $f$ ratum fuper fratum, i. e. ne layer above another alternately; S. V. B. E. E O. V. for $/ i$ vales bene of, ego quoque valeo, a form of $J$ in Cicero's time, in the beginning of let:ers. Ufed as a numeral, S anciently denoted feven; in the Itali,n ruufic, $S$ fignifies /olo: And in books of navigntion, S finds for fouth : S. E. for fouth-caft; S. IV. for fouth-weft ; S. S. E. for fouth fouth-eaft; S. S. W. for fouth fouth wet, \&cc.

Sa avedra, Michael de Ctrvantes, a celebrated Spanifh writer, and the ininvita lc author of Don Quixote, kas born at Madrid in the year 1541. From

Sa：ýcira． his＇nitaticy he＇पtas fond＂of＂book＇s＇；but he applied him－ reif wholly to books of entertaintient，fuch as notels and poetry of all kinds，efpecially Epanifh and Italian authors：From Spain he went to Italy，either to ferve Cardinal Aquaviva，to whom he was chamberlain at Rome＇；or elfe to follow the profeflion of a foldier，as he did forme years under the viftorious banmers of Mar－ co Antonio Colonna．He was prefent at the battle of Lepanto，fought in the year $157^{1}$ ；in which he either lof his left hand by the thot of an harquebus，or had it fo maimed that he loft the ufe of it．After this be was taken by the Muors，and carried to Algiers，where he continued a captive five years and a half．Then he relurned to Spain，and applicd himfelf to the writing of comedies thid tragecties；and he compofed feveral， all of which were well received by the pablic，and acted with great applanfe．In the year $15^{8}+$ he publifhed his Galatea，a novel in fix books；which he prefented to Afcanio Colonna，a man of high rank in the church， as the firte fruits of his wit．But the work which has done him the greateft honour，and will immortalize his siame，is the hittory of Don Quisote；the firt part of which was printed at Madrid in the year 1605．This is a fatire upon books of knight－errantry；and the prin－ cipal，if not the fole，end of it was to deftroy the repn－ tation of thofe books，which had fo infatuated the great－ er part of mankind，and efpecially thofe of the Spanifh nation．This work was univerfally read；and the moft cninent painters，tapeftry－workers，engravers，and fculp－ tors，liave been employed in reprefenting the hiftory of Don Quisote．Cervantes，even in his lifetime，ob－ tained the glory of having his work receive a royal ap－ probation．As King Pbilip III．was ftanding in a bal－ cony of his palace at Madrid，and vierting the country， He obferved a fludent ca the banks of the river Man－ zanares reading in a book，and from time to time break－ ing off and teating his forehead with extraordinary tivens of pleafure and delight：upon which the king faid to thofe about limm，＂＇That Tcholar is either mad， or reading Don Quixute $\because$＂，the latter of which pro－ red to be the cafe．But virtius laudatur et alyet ：not－ witliftanding the raft applaufe bis book everywhere met with he had nott intereff enough to procure a fmall pen－ fion，for he could fearcely keep himfelf from farving． In the year 1615 ，he publifhed a fecond part；to which he was partly moved by the prefumption of fome fcrib－ bler，who had publifhed a continaation＇of this work the year before．He wrote alfo feveral novels；and ämong the reft，＂The Troubtes of Perfiles and Sigifimmend．＂ He had employed many years in writing this novel，and finified it bat juft hefore his death；for lie did not live to fee it publifed．His ficknefs was of fuch a nature， that he himfelf was able to be；and actually was，his own hifforian．At the end of the preface to the Troublé of Perfiles at．d Sigifmundá，te＇reprefents him－ felf on horfeback upon the road，and a fedent，who had overtaken him，engaged in converfation with him：＂and Lappening to talk of my illnels（fays beb），the ftudent foon let me know my doom；ty faying it was a dropify I had got；the thirft attending which all the water of the ocean，though it were not dill，would not fuffice to quench．Thierefore Senicr Cervantes，fayshe，you muff drink nothing at all，but do not forget to eat ； for this alone will recover you wifthout any other piny fice．I have been tota the fame by others，arifiered I；
butt I cant to mbor iutbear tippling，thnn in I weve boan Sasvedra ta do thething dfe．My life is drawing to an end ；and from the dofly journhl of my pulfe，I liall have finithed my cotrfe by next Sanday at the fartheft．－But adied， my mèrry friends all，for I am going to die；and I hope to＇fee you ere long in the other world，as happy as heart can wifh．＂His dropfy increafed，and at laft． proved fatal to him；yet he continued to fay and to write bon mots．He received the laft facrament on the 18th of April 1616 ；yet the day after wrote a dedi－ cation of the Troubles of Perfiles and Sigifmunda to the condé de Lemos．The particular day of his death is not known．

SABA，a Dutch ifland near St Euflatia in the Weft Raynar＇s Indies．It is a fteep rock，on the furmit of whicly is Hijfory， a little groand，very proper for gardening．Frequent vul．iv． rains，which do not lie any time on the foil，give growth to plants of an cxquifite flavour，and cabbages of an extraordinary fize．Fifty European families，with about one hundred and fifty llaves，here raife cotton，fpin it， make flockings of it，and fell them to other colonies for as much as ten crowns＊a pair．Throughout Ame－＊il．ss． rica there is no blood fo pure as that of Saba；the wo－ men there preferve a frefhnefs of complexion，which is not to be found in any other of the Caribbee iflands． Happy colony！elevated on the top of a rock between the fky and fea，it enjoys the benefit of both elements without dreading their ftorms；it breathes a pure air， lives upon vegetables，cultivates a fimple commodity； from which it derives eafe without the temptation of riches；is employed in labours lefs troublefore thani ufeful，and poffeffes in peace all the bleflings of mode－ ration，health，beauty，and liberty．This is the temple of peace，from whence the phinofopher may contemplate at leifure the errors and paffions of men，who come， like the waves of the fea，to frike and dafh themfelves on the rich coafts of America，the fpoils and poffiefion of which they are perpetually contending for，and wrefl－ ing from each other ：hence may he view at a diftance the nations of Europe bearing thunder in the midit of the ocean，and burning with the flames of ambition and avarice under the heats of the tropics；devouring gold without ever being fatisfied；wading through feas of blood to a amals thofe metals，thofe pearls，thofe dia－ monds，which are ufcd to adorn the oppreffors of man－ Kind；loading innuimerable fhips with thofe precious cafks，which farnifliluxury with purple，and from which flow pleafures，effeminacy，cruelty，and debauchery． The tranquil inhabitant of Saba views this mads of follies， and fpins his cotton is＇peace．

SAB⿸厂犬土ANS．See SABIANS．
SABAZIA，in Greek antiquity，were nocturnal myfteries in honotr＇of Jupiter Sabazius．All the ini－ tiated had a golden＂ferpent put in at their breafts，and taken out at the lower part of their garments，in me－ mory of Ju＇titers＇s ravifhing Proferpina in the form of a ferpent．＂Thère＂Were allo other feafls and facrifices di－ ftinguifhed by this appellation，in honour of Mithras， the deity of the Perfiens，and of Bacchus，who was tbus denominated by the Sitbians，a pople of Thraces．

SABBATARIANS，or Seventit day Baptists，a feet of anabaptifts；thus ealled，beecanfe they obferved the Jewifl or Saturday：Sabbatho freme ba perfuafich tha＇t it was never fleregated in the New Teflement bylthe int fitulion of any other．

SADBATH，

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Sathath. SABBATH , in the Hebrew language, Gignifies rgf. The feventh day wes denominated the Sabbath, or day of refl, becaufe that in it God had refted from all his works which he created and made. From that time the feventh day feems to have been fct apart for religrous fervices; and, in confequence of a particular injunction, was afterwards obferved by the Hebrews as a holyday. They were commanded to fet it apart for facred purpofes in honour of the creation, and likewife in memorial of their own redemption from Eyptian bondage.
Importance of the inftitution, and cas. y cere. sconies. from the different laws refpecting it. When the ten commandments were publifted from Nount Sinai in tremendous pomp, the law of the Sabbath held a place in what is commonly called the firit table, and by lubfequent flatutes the violation of it was to be puniflied with death. Six days were allowed for the ufe and fervice of man; but the feventh day God referved to himenelf, and appointed it to be obferved as a ftated time for holy offices, and to be fpent in the duties of piety and devotion. On this day the minifters of the temple entered upon their week; and thofe who had attended on the temple fervice the preceding week went out at the fame time. New loaves of thew-bread were placed upon the goldea table, and the old ones taken away. Tiro lambs for a burnt-offering, with a certain proportion of fine flour, mingled with oil, for a b:ead-offering, and wine for a libation, were oflered. The Sabbath, as all other feftivals, was celebrated from evening to evening. It began at fix in the evening on Friday, and ended at the fame time the next day.
Concerning the time at which the Sabbath was firft inttituted, different opinions have been held. Some have maintained, that the fanctification of the feventh day, mentioned in Gen. ii. is only there fpoken of $\delta_{0} x$ тgoxfं's, or by anticipation; and is to be undertood of the Sabbath afterwards injoined the children of Ifrael at the commencement of the Mofaic difpenfation. But without entering into a particular examination of all the arguments adduced to fupport this opinion, a few obfervations, it is prefumed, will be futicient to flow that it refts on no folid foundation.

It cannot eafily be fuppofed that the infpired penman would have mentioned the fanctification of the feventh day amongit the primeval tranfactions, if fuch fanctification had not taken place until 2500 ycars afterwards. Writers, ambitious of that artificial clegance which the rules of criticifm have eftablihed; ofien bring together in their narratives events which were themfelves far diftant, for the fake of giving form to their difcourfe ; but Mofes appears to have defififed all fuch flimfy refinements, and to have conftrueted his narrative in great conformity to the feries of events.

From the accounts we have of the religious fervice praclifed in the patrinrchal age, it appears that, immediately after the fall, when-Adam was-reftored to fayour through a Madialor, a lated form of public worn Bip was inflituted, which man was required to obferve, in teftimonv, tist arly of his dependence on the Creator, but allo of his foikh, and hope in the promile made to. our fiflepdrests, and feen afar of. Of an inftitution, then, fo grand: and important; no citcumitance would be amitted thet is neceffary to, preferve it, or that contributes to render the obfervance of it regular and fo'conn. 11 .

That determined times are necefliary for the cive ce- Sabbath. lebration of divine fervics, cannot be denifd. Such is the conltisution of man, that he mult have parlicular Nec Jity times fet apart for particular fervices. He is doomed of ftated to toil and labour; to earn his bread in the fweat of dasstor his face; and is capable of performing retigious du-the pertics only in fuch a ramner as is conffitent with his fity- otmance. ation in the world. If flated times for religious, folemnities had not been enjoived, the confequence would have, been, that fuch fulemnities would have been altogether neglected; for experience fhows, that if mankind were left at liberty when and how oiten they fhould perform religious offices, thefe effices would not be performed at all. It is the oblervation of holy times that preferses the practice of holy fervices; and without the frequent and regular returns of hallowed days, man would quickly forget the duty which le owes to God, and in a fhort time no veftige of religion would le found in the world.

Among the ordinances which God vouchfefed his Objections ancient people, we find that the pious obtervation of to the earholydays was particularly infiited upon; and the Sab- ry inftitubath was enjoined to be liept holy, in the mof folemn Sathath manner, and under the feve:cft penalties. Cen it then confidered. be fuppofed that He would fuffer mankind, from the creation of the world to the Mufaic era, to remain whilh out an inftitution fo expedient in itfelf, and as well fitted to anfwer the end propofed by it, under the one difpenfation, as ever it could be under the other? No; wa have every imaginable reafon to conclude, that when religions fervices were enjoined, religious times were appointed alfo; for the one neccflarily implies the other.

It is no objection to the early inftitution of the Sabbath, that there is no mention of it in the hiftory of the patriarchal age. It would have fwelled the Bible to a mof enomous fize, had the facred bilkorian given a particular account of all the tranfactions of thofe times; befides, it would have anfwered no end. When Mofes wrote the book of Gencas, it was unneceflary to relate minutely tranfactions and inflitutions already well known by tradition: accordingly we fee, that his nars rative is everywhere very concife, and calculated only to preferve the memory of the mof important facts. However, if we take a view of the church fervice of the patriarchal age, we Mall find that what is called the ligal difpenfation, at leaft the liturgic part of it, was no new fyitem, but a colicetion of inftitutions obierved from the beginning, and republifhed in form by IVIcfes. The Scriptures, inform us that Cain and Abel offered facrifices; and the account which is given of theacceptance of the one, and the rejection of the other, evidently hows that fated laws refpecting the fevvice had then taken place. "In procels of time," at the end of the days, "Abel brought an offering." Here was pricist, altar, matter of facrifice, alpoinied sime, motice to facrifice, atonimiont made, and occepicd. The ditrinction of animals into clean and unclean beforc the floud, and Noah's facrifice immediately afier his deliverance, without any new.direction, is an unanfwerable pronf of the fame truth. It is teflified of $\Delta$ braham, by God him. felf, that he kept his charge, his commandinenes, his fiar, tutes, and bis laws. Thele expreffions comprehend tlie. various branches, into which the law girery at Siuai fyas. divided. They contnin the moral precepts, affumative and negative, the matter of seligicos Cericce, a body of
'A" s

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Sabbath. latrs to dircet obelience, and to which man was to conform his conduct in every part of duty. Agreeably to this, we find that facrifices were offered, altars and places of worftin confecrated, and the Sabbaith alfo mentioned as a well-Lnown folemnity, before the promulgation of the law. It is exprefsly taken notice of at the fall of manna; and the incidental manner in which it is then mentioned, is a convincing proof that the Ifraelitcs were no flrangers to the inflitution: for had it been a new one, it muft have been enjoined in a pofitive and particular manner, and the nature of it muft have been lail open and explained, otherwife the term would have conveyed no meaning.

The divifion of time into weeks, or periods of feren days, which obtaired fo early and almoft univerfally, is a frong indication that one day in feven was always diftinguifhed in a particular manner. IEeet*, and foven days, are in feripture language fynonymous ternis. God commanded Noah. feven days before he entered the ark, to introduce into it all forts of living creatures. When the waters of the flood begen to abate, Noah fent forth a dove, which, finding no reft for the fole of her foot, returned to him. After fouen days he fent forth the dore a fecond time, and again fle returned to the ark.: At the expiration of other /even d'ays he let go the dove a third time : and a weck is fpoken of (Gen. xxix.) as a well-known fpace of time.

This fentenary divifion of time has been, from the earlieft ages, uniformly obferved over all the taltern world. The Ifraelites, Aftyrians, Egyptians, Indians, Arabians, and Perfians, have always made ufe of a week, confifting of feren days. Many vain attempts have been made to account for this uniformity; but a practice fo gencral and prevalent could never have token place, had not the feptenary diftribution of t:me teen inllituted frum the beginning, and handed down by tradition.

From the fame fource al'o mult the ancient heathens have derived their notions of the facrednefs or the feventh day. That they had fuch notions of it is evident from feveral paffages of the Greek poets quoted by Ariftohulus, a learned Jew, by Clement of Alexandria, and Eufebius.

- iesonz, isgar xiucte. Hefiod.

The feventh, $t$.e facred day.
 Afterwards came the feventi:, the facred day.

## Again:


Ois the fevchulh day all things were completed.

All things were macie perfect on the foten'la day.
That they likewife held the number feven in high eftimation has been fhown by a learned, though fomelimes

* Holloway's Ori. ginals,
Yil $\mathrm{in}_{1}$ p. 60 .

They likessifo defigned it reneropogos, leading to the end. Salbath, Seven, in the Hebrew language, is expreffed by a word that primarily fignifies fulnefs, completion, fufficiency, and is applied to a weck, or foven days, becaule that was the full time employed in the work of creation; to the Sabbath, becaufe on it all things were completed́; and to an oatk, becaufe it is fufficient to put an end to all ftrite. This opening of the Hebrew root will enable us to come at the meaning of thefe expreflions of the heathens, and alfo let us fee u hence they derived their ideas and modes of fpeaking, and that the knowledge of the tranfactions at the creation, though much perverted, was never entirely loft by them.

It has been fuppofed by fome, that the heathens borrowed the notion of the facrednefs of the feventh day from the Jews. But this opinion will not readily be admitted, when it is confidered that the Iews were held in the greateft contempt by the furrounding nations, who derided them no lefs for their fabbaths than for their circumcifion. All forts of writers ridiculed them on this account. Seneca charged thems with fpending the feventh part of their time in floih. Tacitus faid, that not only the feventh day, but alfo the feventh year, was unprofitably wafted. Juvenal brings forward the fame charge ; and Perfus upbraided them with their recurita fabbara. Plutarch faid that they kept it in honour of Bacchus. Tacitus affirmed, that it was in honour of Saturn; but the molt abominable affertion of all is that of Apion, wh:o faid that they obferved the Sabbath in memory of their being cured on that day of a fhamerul difeafe, called by the Egyptians fủto.

Some perceiving the force of this objection bave contended, that tirs divided into weeks of feven dyys, that each of :etary gods, the Sun. Muon, Merciry, Vents iier, and Saturn, who were t.e Dii major:" , oh have a day aporor riated to his lervice. + s the erigin of weeks, how came $t^{\prime}$ e .t' at : oddels Tellus to be omutted? \& in soohp. - carly idolaters as well as $t$ ic c....pla is dad arciv have been deemet by ti, - is ar. hy : a p. alar uay fet apart to het ken: : as $t^{2}$ et anet S urn, who was lone un-
 times confiuer. $d$ as of malign afpect. (See ResiFith:i)

O hass have fupre rod, that as the year was divided into lunar noon is of fomething more than 28 days, it was natural to divide the month into quarters from the different , hates of the moon, which would produce as many weeks of feven days. But this fuppofition is lefs tenable than the former. The phafes of the moon are not fo precifely marked at the cuarters as to attrect to them any particular notice, nor are the quarterly appearances of one month commonly l he thofe of another. We cannot, therefore, conceive what thould have induced the ent ieft obfervers of the phafes of the moon to divide the tronth inito four parts rather than into three, or five, or feven. Had the ancient week confifted of 14 days, it mioht have been inferred, with fome degree of plaufibility, that its length was regulated bv the pbafes of the moon, becaufe the thape of that luminary, at the end of the fecond quarter, is very precifely markei; but there is nothing which, in the prefent ho pothefis, could have everywhere led mankind to make their wecks conglt of feven days. This divifion of time, therefore,

Sabiath ea , accouated for only by admitting the primeral ineftiutio: of the Sab.ath, as reiated by noles in the bouk or Gene?s. What inltitution was abfolutely necellury to preferve among men a fenfe of religion; axd it
mo.cal to the J ws at the gizing or the law, ary Wis its onle:vance cuforced by the everelil penalues, It was accordin, y ejieved by them with more or lefs firietmiss in every period of their commonwealth, and there is nove of tie intlitutims of their onvire lawgiver whech, in their prefunt dhate of differfon, they mare hichay honsur. 'I y resurd it, indeed, with a fape ritious rev rence, call is inimir $\sqrt[\beta]{3} u f e$, their dolight, and upeak of it in the moit mannif.ent terms. They have often varied in their opinis: s of the manner in which it ougl.t to be kept. In the time of the Maccabees, they carried their refpect for the fubbath fo very ligh, that they wou!d not on that day defend themfelves from the attacks of their enemies. But afterwards they did not foruple to thand upon their necefiory cefence, although they would do 1 othing to prevent the enemy from carryi.g on their operations, When our Saviour was on earth, it was no fin to looie a bealt from the ftali, and lead him to water; and if he had chanced to i.l. into a ditcha, they fulled him out : but now it is abfinceiy unlawful to give a creature in that fituation a ay o!ner affilance than that of food; and if they lead an aninal to water, they riut the care not to let the bride or inalter basg locie, otherwite they are tranfgreẽ. :s.

As the law enjoins reit on that day from all fervile emp.cymenis, in orde: to comply with the injunction, they unfertake no kind of work on Friday tut fuch is can eafily be acc raplifhed before evening. In the afternoon thicy put into proper places the reat that they In ve preparse to ent the day following. They afterwards fet out a table corered with a clean eloth, and place bread up n it, which they alfo cover with another cioth; and during the fabbath the table is never mooved out of its place. About an hour before funct, the women listit the fabsath lamos, which hang in t'e places where they eat. They then fatctoh forth their hands to the light, and prononnce the fotluming berea tion. " Bleffed te thou, O G-d, king of t'ie worid, who haft e:.joined us, that are fanetifed by thy command:nents, to l.ght the fabbath lamp." "1.acte lamps are $t: \%$ or more in number, according to the fize of the chamber in which they are fufpended, and co: tinue to burn during the greatef part of the night. In order to begin the fabbath well, they wafh their ha:ads and faces, trim their hair, and pare their nails, beginning at the fourth finger, then going to the fecond, then the fifth, then the third, and ej ing with the thumb. If a Jew cafts the parings of 1 is inails to the ground, he is rafcah, that is, a wicked mann; for Satin las great pewer over thofe parings of nais; and it feems they are of great ufe to the wizzards, who know how to employ them in their enchantments. If he buries them in the earth, he is fzedic, that is, a juf man: if he burns them in the fire, he is cheffid, that is, worthy of honour, an holy man. When they have performed thefe preparatory ceremonies, they repair to the fynagogue, and enter upon their devotions. As foon as prayers begin, the departed fouls fpring out of the purgatorial flames, and have liberty to cool themfeives in water while the fabbath lafts; for which reafon the Jews pro-
long the continuance of it as mach as they can; and the Sabbath. Rabbins have trictly commanded them not to exhauf all the water on the lasbath dey, leit thofe miferable fouls thould by that means be deprived of the refrething coment. When they have eaded their praycrs, they return home, and latute cue anothes, by wilhing a good fal: bath. They then it down to table. The matter of the ta nily takes a cup full of wite, and lifting up his hand, i:yc, "Bleffed be thon, O God our Lord, king of the wo:ld, who haft created the fruit of the vine.Biffid ie thou, O God our L d, king of the world, w.o hafl fanctified us by tliy commandments, and given us t':y holy fabbach; and of thy good will and pleature la. left it to us an inheritance, the memorial of thy works of creation. For it is the beginsing of the cusigregation of faints, and the memorial of the coming cut of Egypt. And thou haft alfo cholen us from all other people, and fanctilicd us, and with love and pleafure hat left thy holy fatbath an inheritance. Bletied be thos, O God, who fanctifiat the mawa'h." After this benediftion is ended, he drinks and gives the cup to all that are prefent. He then removes the clorh, and taking bread, fays, "Bieffed be thou, O God our Lord, king of the world, who bingeft bread out of the earth." Then he breahs off a bit, and eats, and alfo gives a piecc ci it to etery one of the company:

Cathe morning of the : U.anth, the I. Iews do not rife fo early as they do at other times. Thinking, thic greater ple fure they take on that day, the mure devoutly they keep it. When thry come into the fynagogue, they pray as ufual, oniy tie devotions are lome. what longer, being intermingled with pfalmody, in honour of the fal bath. The Pentateuch is then produced, and feven f:ethons of it are read in order by feven perfons chofen for the purpofe. Siveral leffons are likerife read out of the propleis, which have fome rela ion to what was read out of the lavs. Atter morning prayers they return to their houfes, and eat the fecond fabbathmeal, fhewing every token of joy, in in mour of the feftival. But if one has feen ary thirg ominous i!g his fleep; if he has dreamed that he burnt the book of the law; that a beam has come out of the walls of his houfe; th t his teeth have f.llen out;-then he falis until very late at night, for all fuch dreums arc bal ones. In the aftemoon they go again to the fyn-toguc, and perform the evening lervice, adding to the ordinary prayers fome lenions that refpect the fabbath. When the des: tional duties are ended, they return home, and light a candle refembling a torch, and again fit down to eat. They remain eating until near fix, and then the mafter of the family takes a cup, and pow ir. wine into it rehearfes fome benedictions; after which he pours a little of the wine upon the ground, and fays, "Blefled be thou, O Lord, King of the world, who haft created the fruit of the vine." Then helding the cup in his left hand, with the right he takes a box of frect fpices, and fays, "Blefied be thou, O Lord God, wio hait created various kinds of fweet fpices." He fmells the fpices, and holds them out to the reft, that they may do the fame. He then takes the cup in his right hand, and going to the candle views the left very narrowly, and pronounces a blefling. With the cup in the left hand, he examines the right in the fame manner. Again, holding the cup in his right hand, he rehearfes another benediction, and at the fame time pours fome of the wine

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Stionethe.为 on the ground. After this be drinks a little of it, and then bands it about to the reft of the family, who firill what remians. In this manner the fablath is ended by the Jews, and they may return to their ordinary emplavaents. Thole who meet pay their complinuents, Ly wiluing one another a happy week.

The Rabbins have reckoned up nire and thisty primary prohibitions, which ought to be obferved on the fabbatic fellival; but their circumflances and dependents, which are alfo obligatory, are almoft innumerable. The 39 articles are, Not to till the ground; to fow; to seap; to make hay; to bind up lheaves of corn; to threlh; to winnow; to grind; to lift meal; to knead the dough ; to bake ; to thear; to whiten ; to comb or card wool; to lpin; to twine or twizt; to warp; to dye; to tie ; to untie ; to few ; to tear or pull in pieces; to build; to pull down; to beat with a hammer ; to hant or fifh; to kill a beaft ; to Hay it ; to drefs it; to ferape the fkin ; to tan it; to cut leather ; to write; to fcratch out ; to rule paper for writing; to kindle a fire; to extinguilh it; to carry a thing from place to place; to expole any thing to fale. Thefe are the primaty prohibitions, and each of thefe has its proper coniequemces, which amount to an incredible number; and the Jews themfelves fay, that if they could keep but two fabbaths as they ought, they would foon be delivered out of all their troubles.

If a Jew on a joumey is overtaken by the fabbath in a wood, or on the highway, no matter where, nor under what circumflances, he fits down; he will not ftir out of the lpot. If he falls down in the dirt, he lies there; he will not rife up. If he fhould tumble into a privy, be would reft there : he would not be taken $\operatorname{unt}(A)$. If he fees a flea fkipping upon his clothes, lie mont not catch it. If it bites him he may only remove it with his hand ; he mult not kill it ; but a loufe reeets with no fuch indulgence, for it may be deflroy. ed. He muft not wipe his hands with a tovel or cloth, but he may do it very lawfully with a cow's tail. A frefh swound muit not be bound up on the fabbath-day; a- platter that lad been formerly applied to a fore may remain on it; but if it falls off, it mutt not be put on anew. The lame may ufe a flaff, but the blind muft not. Thefe particulars, and a great many more of the fame mature, are obferved by the Jews in the ftricteft manner. But if any one wifhes to know more of the practice of that devoted race, lie may confult Buxtorf's Juduica Synagoga, clop. x. xi. where he will find a complete detail of their cuftoms and ceremonies on the fabbath; and likewife fee the primary prohibitions
him frum the domirion of him who has the porver of death.

Itis day was denominated by the primitive Clinifiams the Lord's áay. It was alío formetimes caided Siunday; which was the name given to it by the heathens, who dedicated it to the fun. And indeed, although it was eriginally called Sunday by the heathens, yet it may very properiv retaiu that nane among ChriNians, becaute it is dedicated to the honour of "The true light," which lighteth every man that cometh into the world, of Him who is ftyled by the prophet "The Sun of righteoulnels," and who on this day aroie from the dead. But alhhough it was, in the primitive times, indifferently called the Lord's doy or Sunday, yet it was never denominated the fabboth; a namie conitantly appropriated to Saturdny, or the feventh day, both by facred and ecclefiallical writers.

Of the change from the feventh to the frof day of The men. the week, or even of the inltitution of the Lord's day tion of it fellival, there is no account in the New 'Teltament. Howevcr, it may be fairly inferred from it, that the firft day of the week was, in the apoftolic age, a fated time for public worlhip. On this day the apofles were affembled, when the Holy Ghoft came dowz fo vifitiy upon them to qualify them for the converfion of the world. On this day we find St Paul preaching at Troas, when the difciples came to break bread : and the directions which the fame apoftie gives to the Co rinthians concerning their contributions for the relick of their fuffering brethren, plainly allude to their religious affemblies on the firft day of the veek.

Thus it would appear from feveral faffges in: the New Teftament, that the religious obfe"vation of the firft day of the week is of apoltolical appointment; and may indeed be very reafonably fuppoled to t.e aunr $g$ thofe dircetions and inftructions which our bleftica Lord bimfelf gave to his dilciples, during the 40 days between his refurrection and afcenfion, where in he converfed with them, and fpoke of the things pertaining to the kingdom of God. Still, however, it muft be owned that thofe paffages, although the plaineft that occur, are not fufficient to prove the apoftolical inflitution of the Lord's day, or even the actual obfervation of it. In order, therefore, to place the matter beyond all controverfy, recourfe muft be had to ecclefiatical teftimony.

From the confentient cvidence and uniform pracice of the primitive church, and alfo from the atteftation of Pliny, an heathen of no mean figure both in learning and power, we find that the firft day of the week was obferved in the earlieft ages as a holyday or feftival, ia honour of the refurrection of Chrilt. Now there are but two fources whence the cuftom could poffibly have arifen. It muft have been inflituted either by human or divine authority : by human authority it was not inflituted; for there was no general council in thofe early times, and without the decree of a general council it was impeffible that any ecclefiaftical inftitution
could

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S:Mbath. $\mathrm{E}_{3}$ but ncverthele's it appears t? be of dtvine ori$g^{1 \mathrm{n}}$.

Purpule for which the Lord's day was inftituted.

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How it w is obferved in the primitive simes.
conld have been univerfally eftablihed'at once. It remaiss, therefure, that it mult have been inflituted by diviue authority: and that it really was fo, will farther appear from the following confiderations. It is ceriain that the aportles travelled over the grev.eft part of the world, and planted churches in the remotelt parts of it. It is certain alfo that they were all led by the fame foirit; and their defire was, that unity and uniformity fhould be obferved in all the churches which they bad founded. It is not therefore furprifing that, in the primitive times, the lame doctrine, the fame sworhip, the farae rites and cufloms, fhould prevail all over the Chrifian world; nay, it would have been unaccountable had the cafe been otherwife. For this reafon we may conclude that every cuftom, univerfally obferved in the early ages of the Chrillian church, and not inftituted by a general council, was of original appointment.

As the Lord's tlay is fanctified, that is, fet apart to Chrittians for the worhip and fervice of God, their Creator, Redeemer, and Sanctifier, a little confideration will eafily difcover how it ought to be obferved. Although a day feparated from worldly bufinefs, yet it is in no fenfe a day of idlenefs, but a feafon appropriated to the works of falvation and labours of charity.

In the primitive times this holy day was obferved in the moff folemn manner. From the monuments of thofe carly ages we learn, that it was fpent in a due and conftant attendance on all the offices of divine worfhip. On it they held their religious affemblies, in which the writings of the apofles and prophets were read to the people, and the doctrines of Chriftianity further preffed upon thern by the exhortations of the clergy. Solemn prayers and praifes vere offered up to God, and hymns fung in honour of Chrif; the Lord's fupper was conflantly celebrated; and collections were made for the maintenance of the clergy and the relief of the poor. On this day they abflained, as much as they could, from bodily labour. They looked upon it as a day of joy and gladnefs; and therefore all falling on it was prohibited, even during the feafon of lent, their great annual faft.-Such sras the zeal of thofe times, that nothing, no not the fevereft perfecutions, hindered them from celebrating holy offices on this day. They were often befet and betrayed, and as often flaughtered in confequence of cruel edicts from emperors, thofe very emperors for whofe happinefs and profperity they always offered up their fervent prayers. For this caufe, when they could not raect in the daytime, they affembled in the morning before it was licht; and when fick, in exile, or in prifon, nothing troubled them more than that they could not attend the fervice of the church. No trivial pretences were then admitted for any one's abfence from public worfhip; for fevare cenfures were paffed upon all who were abfent without forne urgent neceffity. When the empire hecame Chriftian, Conftantine and his fucceifors made laws for the more folemn obfervation of the Lord's day. They prohibited all profecu ions and pleadings and other juridical matters to be tranfacted on $i t$, and allo all unneceffary labour; not that it was looked upon as a Jewifh fahbath, but becaufe thefe things were confidered as inconfiftent with the duties of the feftival.

But althouch the primitive Chriltians did not inVoz. XVIII. Part II.
dulge themfe!ves in the practice of unneceffary lobour or trifling amufements, yet they did not wholly abft in from working, if great necelitly required it. The council of Ladis a enjoined that men fhould abstain from work on the Luru's day if pollbie; but if any were found to judazze, they were to be cenfured as great tranfgrefors. So circumfpect were the primitive Chriftians about their conduct on this feliival, that on the one hand they avuided all things which tended to profane it, whilk on the other they cenfured all thole who infifted it thould be obferved with Puarilaical rigour.

The primary duty of the Lord's day is publia quor- Advants. Bip. The nature and defign of the Chritian religion ows relu... futhiciently flows the neceffity and imporiance of af ${ }^{\text {mi }}$, tion fembling for the duties of devotion. The whole fcope vation of of Chrifianity is to bring us to an union with God, it. which cannot be obtained or prelerved without frequent communications with him; and the reafuns which fhow religious intercourfe to be the indifpenfable duty of Chrillians in a private capacity, will bind it with equal or more force on them conidered as a conamunity.

The advantages of public worthip, when duly performed, are many and great. There ate two, however, which deferve to be confidered in a particular manner. It gives Chrifians an opportunity of openly profeling their faith, and teflifying their obedience to cheir Re-
deemer in the wifeft and beit manner; ard in an age their faith, and teflifying their obedience to their Re-
deemer in the wifeft and beit manner; and in an age when atheifm has arien to an alarming beight, when the Son of God is crucified afrefh, and put to open the Son of God is crucified afrefh, and put to open
fame, every man, who has any regard for religion, will cheerfully embrace all opportunities of declaring his abhorrence of the vicious courfes purfued by thole
degenerate apoltates. He will with pleafure lay hold his abhorrence of the vicious courfes purfued by thole
degenerate apoltates. He will with pleafure lay hold on every occafion to teflify that he is neither afraid nor
afhamed to confefs the truth; and will think it his inon every occafion to teftify that he is neither afraid nor
affamed to confefs the truth; and will think it his indifpenfable duty openly to difavow the fins of others, that he may not incur the guilt of partaking of them. Public worfhip preferves in the minds of men a fenfe of religion, without which fociety could not exit. Noof religion, without which fociety could not exit. No-
thing can keep a body of men together and unite them in promoting the public good, but luch principles of action as may reach and govern the heart. But thele
can be derived only from a fenfe of religious duties, action as may reach and govern the heart. But thele
can be derived only from a fenfe of religious duties, which can never be fo ftrongly impreffed upon the mind as by a conftant attendance upon public worfhip. No-
thing can be more weak than to neglect the prolic woras by a conftant attendance upon prblic worfhip. No-
thing can be more weak than to neglect the puolic worthing can be more weak than to neglect the puolic wor-
fhip of God, under the pretence that we can employ ourfelves as acceotably to our IVaker at home in onr clofets. Both kinds of worllip are indeed neceffary ;
but one debt cannot be paid by the difcharge of anoclofets. Both kinds of worflip are indeed neceffary ;
but one debt cannot be paid by the difcharge of another. By public worflip cvery man profefles his belief in that God whom he adores, and appeals to Him for
his fincerity, of which his neighbour cannot judge. By in that God whom he adores, and appeals to Him for
his fincerity, of which his neighbour cannot judge. By this appeal lie endears himfelf more or lels to others. It creates conlidence; it roots in the heart benevolence, and all other Clirillian virtucs, which produce, in common life, the fruits of mutual love and general peace. People in general are of opinion that the duties of the Lord's day are over when public worlhip is ended,
But they feem to forget for what purpoles the day was the Lord's day are over when public worlhip is ended.
But they feem to forget for what purpofes the day was fet aoart. It is not only appropriated to the duties of
public worfhip, but alio lanctified to our improvement fet aoart. It is not only appropriated to the duties of
public worfhip, but allo lanctified to our improvement in the knowledge of the doctrines of Chriftianity. It
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  nity, and all otber Clirilian virtucs, which produce, in com-



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Sabbath. is an inflitution calculated to alleviate the condition of the laborious clafies of mankind, and, in confequence of that, to afford reft to begfts alfo. It is proper, it is neceffiry, that rima thould retilect on his condition in the worid, that he thould examine the fiate of his foul, and inyuire what progrefs he has made in that work which was given him to do. Thofe that have children or fervants are obliged to look after their inftruction as well as their own. Thefe are the ends which the infitution of Sunday was defigned to anfwer. Every man molt allow that thefe things mult be done at fome time or other; but unlefs there be fer times for doing them, the generality of mankind would wholly neglect them.

Vifining and traveliing (though very common) are enormous profanctions of this holy day. Families are thereby robbed of their time; a lofs for which no amends can ever be made them : Servants, inffead of having leifure to improve themfelves in tpiritaal knowledge, are bordened with additional labour: And in a man of any humanity, it ruuft excite many painful fenfations, when he reflecas how oflea the uleful horfe on that day experiences all the anguilh of hunger, torn fides, and battered knees. Every kind of amufement, every kind of common Jabour, is an encroachment on the particular duties of the Lord's day; and confequently men profane the day by fpending it in any amuferments, or undertaking upon it any ordinary employment unlefs it be a work of a iolute necelity.
S.IBBATA Breaking, or profanation of the Lord's day, is punithed by the municipal laws of England. For, befides the notorions indecency and fcandal of permitting any fecular bufinefs to ,e publicly tranfacted on that day in a country profefling Chriffianity, and the corruption of morals which ufually follows its profanation, the keeping one day in feven holy, as a time of relaxation and refrel waent, as well as for public worthi: p , is of admirable fervice to a flate, confidered merely as a civil inftitution. It humanizes, by the help of converfation and fociety, the manners of the lower claffes; which would otherwife degenerate into a fordid ferocity and favage felfilanefs of fpirit : it enables the induftrivus workman to $p$ ufue his occupation in the enfuing week witis beaith and checrfulnets: it imprints on the minas of the people that fenfe of their duty to God fo neceliary to make thern good citizens; but which yet would be wor: cut and defaced by an unremitted continuance of labour, without any ftated times of recalling them to the worfhip of their Maker. And therefore the laws of King Athellian forbade all merclandizing on the Lord's day, under very fevere penalties. And by the flatute 27 Hen. VI. c. 5 . no fair or market fhall be held on the principal feltivals, Goodfriday, or any Sunday (except the four Sundays in harveft ), on pain of forfeciting the goods expofed to fale. And, fince, by the flatute 1 Car. I. c. 1. no perfons fhall affemble, out of their own parifies, for any forot whatfoever, upon tiis day ; nor, in their parifhes, fhall ofe any bull or bear. beating, isteriudes, plays, or other unlawful exercifes or paftizes; on pain that every offender fhah pay 3s. 4 d. to the poor. This flatute does not prehibit, but rather impliedly allows, any innocent recreation or amufement. within their refpeetive parifhes, even on the Lord's day, after divine fervice is over. But by fatute 29 Car. II. c. 7. no perfon is allowed to work on the Lord's day, or ufe any boat or
barge, or expoie any goods to fale, except meat in Sabell.azs public houfes, milk at certain hours, and works of neceflity or charity, on forfeiure of 5 s . Nor fall ary dover, carrier, ur the like, travel upon that day, under P. of 20 s.

EARELLLANS, a fect of Chritians of the $3^{d}$ century, that embraced the opinions of Sabellius, a philofopher of Egypt, who openiy taught that there is but one perfon in the Godhead.

The Sabellians maintained, that the Word and the Holy Spirit are only viriuss, emanations, or furchions of the Deity; and held, that he who is in heaven is the Father of all things, that he delcended into the virgin, became a child, and was burn of her as a fon; and that having accomplifled the nyffery of our falvation, lie diffufed himfelf on the apofties in tongues of fire, and was then denominated the Holy Ghof. This they explained by refembling God to the fun, the illuminative virtue or quality of which was the Word, and its warming virtue the Holy Spirit. The Word, they taught, was darted, like a divine ray, to accomplifh the work of redemption ; and that being re-afcended to heaven, the influences of the Father were communicated after a like manner to the apofles.

SABIANS, an early feet of idolaters, which continues to this day, and worfhips the fun, moon, and flars. See Polytheisu, $\mathrm{N}^{0}$ 10, $11,12$.

SABINA, a province of Italy, in the territories of the church; bounded on the north by Umbria, on the ealt by Farther Abruzzo, on the fonth by the Campagna of Rome, and on the weft by the patrimony of St Peter. It is 22 miles in length, and almoft as much in breadth; watered by feveral fmall rivers, and abounding in oil and wine. Tbere is no walled town in it; and Magliano is the principal place.

SABINUS, George, a celebrated Latin poet, born in the eleCtorate of Brandenburg in 1508. His poem Res gefla Cafarum Germanorum, fpread his reputation all over Germany, and procured him the patronage of all the princes who had any regard for polite literature: he was made prufeffor of the belles lettres at Frapkfort on the Oder, rector of the new academy of Koningrburg, and counfellor to the elector of Brandenburg. He marvied two wives, the firft of whom was the eldeft daughter of the famons reformer Melancthon; and died in 1560 . His poems ate well known, and bave been often printed.

SABLE, or SABLE Animal, in Zoology, a creature of the weafel-kind, called by authors minfela zibellina. See Mustela, Maminalia Inde.x.

The chafe of thefe animals, in the more barbarous times of the Ruffian erapire, was the employment, or rather talk, of the unhappy exiles in Siberia. As that country is now become more populous, the fables have in a great meafure quitted it, and retired farther north and eaft, to live in defert forelis and mountains: they live near the banks of rivers, or in the little iflands in them; on this account they have, by fome, been fuppofed to be the इxorfice of Aritotle (Hij). An. lib. viii. c. 5.), which he claffes with the animals converfant among waters.

At prefent the hunters of fables form themfelves into troops, from five to forty each : the laft fubdivide into lefier parties, and each choofes a leader; but there is onc that directs the whole : a fmall covered boat is
provided

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Sable. provided for each party, loaded with provifions, a dog and net for evety two men, and a veltel to bake their bread in : each party allo has an interpieter fur the country they penetrate into. Every party then fets out according to the courfe their chief points out: they go againft the fream of the rivers, drawing their boats tip, till they arrive in the hunting country; there they flop, build huts, and wait till the waters are frozen, and the feafon commences: before they begin the chafe, their leader affembles them, they unite in a prayer to the Almighty for fuccefs, and then feparate: the firft fable they take is callivd God's fable, and is deuicated to the church.

They then penetrate into the woods; mark the trees as they advance, that they may know their way back; and in their hunting quarters form huts of trees, and bank up the fnow round them : near thefe they lay their tra 15 ; then advance farther, and lay more traps, ftill building new buts in every quarter, and return fucceffively to every old one to vifit the traps and take out the game to 0 ikin it , which none but the chief of the party muft do: during this time they are fupplied with provifions by perfons who are employed to bring it on fledges, from the places on the road, where they are obliged to form magazines, by reafon of the impracticability of bringing quantities through the rough country they mult pafs. The traps are a fort of pitfall, with a loofe board placed over it, baited with filh or flefh: when fables grow fcarce, the hunters trace them in the new-fallen foow to their holes; place their nets at the entrance; and fometimes wait, watching two or three days for the coming out of the animal : it has bappened that thefe poor people have, by the failare of their provifions, been fo pinched with hunger, that, to prevent the cravings of appetite, they have been reduced to take two thin boards, one of which they applied to the pit of the fomach, the other to the back, drawing them tight together by cords placed at the ends: fuch are the hardfhips our fellow-creatures undergo to fupply the wantonnefs of luxury.

The feafon of cbace being finifhed, the hunters reaffemble, make a report to their leader of the number of fables each has taken; make complaints of offenders againft their regulations; punif delinquents; fhare the booty; then continue at the head-quarters till the rivers are clear of ice; return home, and give to every church the dedicated furs.

SABLE, Cape, the moit foutherly province of Nova Scotia, in North America, near which is a fine cod-filhery. W. Long. 65.34. N. Lat. 43. 24.

Sable Ifle is adjoined to this cape, and the coafts of both are moft commodioully fituated for fifheries.

SABLE Trade, the trade carried on in the fkins or furs of fables; of which the following commercial hiflory was tranllated by Mr J. R. Forfter from a Ruffian performance on that fubject by Mr Muller.
"Sable; foble, in Rulian; zable in German. Their price varies from tl, to 10 l . tterling, and above: fine and middling fable-fkins are without bellies, and the coarfe ones are with them. Forty fkins make a collection called zimmer. The fineft fables are fold in pairs perfectly fimilar, and are dearer than fingle ones of the fame goodnefs: for the Ruffians uant thole in pairs for facing caps, cloaks, tippets, \&c. the blacke? are reputed the beif. Sables are in feafon from November to February; for thofe caught at any other time of the year are focrt-haired, and then called redofoboli.

The hair of fables differs in length and quality: the long hairs, which reach far beyond the intertor ones, tre called os; the more a fkin his of fuch long hairs, the blacker it is, and the more raluable is the fur ; the very beft have no other but thofe long a ad black hai.s. Morchka is a technical term ulied in the Kuffian furtrade, expreffing the lower part of the long hairs; and fometimes it comprehends likewile the lower and fhorter hairs: the above-mentioned beit fable furs are faid to have a black motehka. Below the long hairs are, in the greater part of the lable-furs, fome fhorter hairs, called podofie, i. e. under.os; the more podofie a fur has, it is the lefs valuable: in the better kind of fables the podofie has black tips, and a gray or rufty motchka. The firlt kind of motchka makes the middling kind of fable furs; the red one the worft, efpecially if it has but ferv os. Between the os and podofie is a low woolly kind of hair, called podfoda. The more potiada a fur has, the lefs valuable: for the long hair wilt, in fuch cafe, take no other direction than the natural one; for the characters of fable is, that notwiliftanding the b ir naturally lies from the head towards the tail, yet it will lie equally in any direction as you frike your hand over it. The various combinations of thefe characters, in regard to os, motchka, podofie, and podfada, make many fpecial divifions in the goodnefs of furs: befides this, the furriers attend to the fize, preferring always, cateris paribus, the biggeit, and thofe that have the greateft glofs. The fize depends upon the animal being a male or a female, the latter being ahways fmailer. The glofs vaniffes in old furs: the freflh ones have a kind of bloomy appearance, as they exprefs it; the old ones are faid to have done blocming: the dyed fables always lofe their glofs; become lefs uniform, whether the lower hairs have taken the dye or not ; and commonly the hairs are fomewhat twifted or crifped, and not fo ftraight as in the natural ones. Some fumigate the $\mathfrak{K k i n s}$, to make them look blacker; but the fmeli, and the crifped condition of the long bair, betrays the cheat ; and both ways are detected by rubbing the fur with a moift linen cloth, which grows black in fuch cales.
" The Chinele have a way of dyeing the lables, fo that the colour not only lafts (which the Ruffian cheats cannot do), but the fur keeps is glofs, and the criiped hairs only difcover it. This is the reafon that all the fables, which are of the beft kind, cither in pairs or feparate, are carried to Ruffia; the reft go to China. The very beft fables come from the environs of Nertchitik and Yakutik; and in this latter diffrict, the country about the river Ud affords fometimes fables, of which one fingle fur is often fold at the rate of 60 or 70 rubles, 121 or 141 . The bellies of fables, whic? are fold in pairs, are about two fingers breadth, and are tied together by 40 pieces, which are fuld from 11 . to 21 . Sterling. Tails are fold by $\mathrm{t}^{\prime}$. F tandred. The very beff f: ble-furs mutt have thicir tails; but ordinsry fables are often cropped, and 100 fold from 41. to 81, fteling. The lears or feet of fables are feldom fold feparalely; whice dables are rare, and no common merchandize, but bought only as curiofities: fime te yeilowifh, and are bleacted in the fipring on the fiow."
S.iet.r., in Heraldry, fignilies "black;" and is botrowed from the Frencin, zs are moft terms in this feience: in engraving it is expret"od by both horizontal and perpendiculux lines crofing each other. Sable of itfelf figtifies conflancy, learning, and gricf; and ancient heralds will have it, that when it is compounded with


The ocesfion ihat introduced this colour into heraldry is thas related by Alexander Nibbet, p. 8 . The duke of Anjou, king of Sicily, after the lois of that kingdom, appeared at a tournament in Germany all in black, with his -hield of that tincture, feme de larmer, i. e. befprinkled with drops of water, to reprefent teass, indicating by that both his grief and lofs.

SABLESTAN, or Sablustan, a prorince of Afia, in Perlia, on the frontiers of Indoflan; bounded on the north by Khorafan ; on the eaft, by the mountains of Balk and Candahar; on the fouth, by Sageftan or Segeftan; and on the wef?, by Heri. It is a mountainons country, very little known to Europeans; nor is it certain which is the capital town.

SABRE, a kind of fword or fcimitar, with a very -broad and heavy blade, thick at the back, and a little falcated or crooked towards the point. It is the ordinary weapon worn by the Turks, who are faid to be very expert in the ufe of it.

SABURRA, in Medicine, tfually denotes any collection of hale putrid indigefted matter in the ftomach and inteltines, by which the operation of digellion is impeded.
SABURR压, gritts, in Natural Hilfory; a kind of fone, found in minute maffes. They are of various colours, as flony and fparry gritts, of a bright or greyifh white colour ; red ftony grits; green fony glitts; yellow gritt ; blackifh gritts.

SACAA, a feaft which the ancient Babylonians and other orientals held annually in honour of the deity Anaitis. The Sacæa were in the Eaft what the Saturnalia were at Rome, viz. a feaff for the llaves. One of the ceremonies was to choofe a prifoner condemned to death, and allow him all the pleafures and gratifications he would wifh, before he were carried to execution.

SACCADE, in the manege, is a jerk more or lefs violent, given by the horreman to the horfe, in pulling or twitching the reins of the bridle all on a fudden and with one pull, and that when a horie lies heavy upon the hand, or obfinately arms himfelf.

This is a correction ufed to make a horfe carry well; but it ought to be ufed difcreetly, and but feldom.

SACERDOTAL, fomething belonging to priefs. See Prifst.

SACCULUS, in Anatomy, a diminutive of faccus, fignifics a little bag, and is applied to many parts of the body.

SACCHARUM, Sugar, or the Sugar-Cane, a genus of plants belonging to the triandria clafs; and in the natural method ranking under the quth $^{\text {th }}$ order, Gramina. see Botany Index.

This plant is a native of Africa, the Eaft Indies, and of Brazil; from whe ce it was introduced into our Weft India iflands foon afier they were fettled. The fugar cane is the glory and the pride of thofe iflands. It amply rewards the indultrious planter, enriches the Britifh merchant, gives bread to thoufands of manufac-
turess and feamen, and brings an immenfe terenue to sanigrom the crown. For the procefs of making fugar, fee SuGAR.

Sugar, formerly a luxury, is now become one of the necellaries of life. In ctop-time every negro on the plantations, and every aximal, even the dogs, grow fat. 'This fufficiently points out the rourifing and heallhy qualities of fugar. It hats been alleged, that the eating of fugar fpoils the colvur of, and corrupts, the teeth : this, however, proves to be a miltake, for wo people en the earth have finer teeth than the negroes in Jamaica. Dr Alfon, formerly profeffor of botany and materia medica at Edinburgh, endeavoured to obviate this vulgar opinion : he had a fine fet of teeth, which he afcribed folely to his eating great quantities of fugar. Externally too it is ofien ufful : mixed with the pulp of roafted oranges, and applied to putrid or ill difpofed ulcers, it proves a porverful corrector.

SACCHAROMETER, an inffrument for afcertaining the value of worts, and the ftrength of diffesent kinds of malt liquor. The name fignifies a meafurer of fiveetnefs. An inflrument of this kind has been invented by a Mr Richardfon of Hull, on the following principle. The mentlinum or water, employed by the brewer, becomes more denfe by the addition of luch parts of the materials as have been diffolved or extracted by, and thence incorporated with it : the operation of boiling, and its fubfequent cooling, fill adds to the derfily of it by evaporation; fo that when it is fubmitted to the action of fermentation, it is denfer than at any other pcriod.

In paffing through this natural operation, a remarlsable alteration takes place. The flud no tooner be $\varsigma$ ins to ferment than its denfity begins to diminith; and as the fermentation is more or leis perfect, the fermentable matter, whofe acceffion has been traced by the increale of denfity, beconses more or lefs attenuated; and in place of cvery particle thus attenuated, a fyinituous particle, of lefs denfriy than water, is produced ; fo that when the liquor is again in a flate of reft, it is fo much fpecifically lighter than it was before, as the action of fermentation has been capable of attenuating the comrponent parts of its acquired denfity; and if the whole were attenuated in this manner, the liquor would become lighter, or lefs denfe than water, becaufe the quantity of fpirit produced from the fermentable matter, and occupying its place, would diminifh the denfity of the water in fome degree of proportion to that in which the latter has increafed it.

SACHEVerEL, Dr Henry, a famous clergyman of the Tory faction in the reign of Queen Anne; who dithinguifhed himfelf by indecent and fcurrilous fermons and writings againt the difienters and revolution principles. He owed his confequence, however, to being indifcreetly profecuted by the houfe of lords for his aftizefe:mon at Derby, and his sth of Noveraber ferinon at St Paul's in 1709 ; in which he afferted the doctrine of non-reffiface to government in its utmoft extent; and reflected feverely on the act of toleration. The high and low chureh parties were very violent at that time; and the trial of Sacheverel inflamed the highcharch party to dangerous riots and excufics : he was, however, fufpended for three years, and lis fermons burned by the common hangman. The Tories being in adminiftration when Sacheverel's fuffenfion expited,
he was freed with every circumftanice of honone and pultic rejoicing; was ordered to preach before the commons on the $29^{\text {th }}$ of May, had the thanks of the howe for his difcourre, and obtained the valuable reetory of St Andrew's, Holbom.

SACK, a wine ufed by our ancefors, which fome have taken to be Rhenih and fome Canary winc.Venner, in his Via Refla a.d Vivam Longama, printed in 1628 , lays that fack is "completely not in the third degree, and that fome affect to drink fack with fugar and fonse without; and upon tho other ground, as I think, but as it is beft fleafing to their palate." He gocs on to fay, " that fark, taken by itcelf, is very hat and very penetrative; being talien with fugar, the heat is both fonewhat allayed, and the penetrative quality thereof at's retaded." He adds farther, that R'icriifh, \&c. decline afier a twelvemonth, but fack and the other fironger wines are 'belt when they are two or three years old. It appears to be highly probable that fack was not a fweet wine, from its being taken with fugar, and that it did not receive its name from having a laccharine flavour, but from its being originally ftored in facks or borachios. It twes not appear to have been a French wine, but a ftrong wine the production of a hot climate. Probably it was what is called dry mounsain, or fome Spanilh wine of that kind. This conjecture is the more plaufible, as Howell, in his Frencli and Englifh Dicionary, printed in the year 1650 , tranilates fack by the words vin d'Efpagne, vin fec.

Stck of Wool, a quantity of wool contaning juft 22 ftones, and every fone 14 pounds. In Scotland, a fack is 24 ftones, each fone containing 16 pounds.
S.ACK of Cotton WTOO, a quantity from one hundred and a balf to four huadred weight.

SACKS of Earth, in Fortification, are canvas bags filled with earth. They are ufed in making retrenchments in hafte, to place on parapets, or the head of the breaches, \&c. to repair them, whea beaten down.
S.ACKBUT, a mufical inftrument of the wind kind, being a fort of trumpet, though different from the common trumpet both in form and fize; it is fit to play a bafs, and is contrived to be drawn out or fhortened, according to the tone required, whether grave or acute. The Italians call it trombone, and the Latins tuba ductilis.
SACKVILLE, Thovias, Lord Buckhurf, and Earl of Dorlet, a ftatefman and poet, the fon of Richard Sackville, Efq. of Buckhurft, in the parih of Withian in Sufiex, was horn in the year 1536 . He was fent to Hart-hall in Ovford, in the latter end of the reign of Edward VI. whence he removed to Cambridge, where he took a maiter of arts degree, snd thence to the Inner Temple. He now applied himfelf to the ftudy of the law, and was called to the bar. We are told that he commenced poct whilit at the univerfities, and that thele his juvenile productions were much admired, none of which, however, have seen preferved.In the fourth and fift year of Queen Mary, we find him a member of the houfe of commons; about which time, in 1557 , he wrote a poetical riece, entitled The Indufion, or The Mirror of Magillrates. This laft was weant to com-richend all the unfortumate Great from the beginning of our hilory; but the defign being drop. red, it wis inferted in the body of the work. The Miroor of Megifrates is formed on a dramatic plan;
in which the perfons are introduced feaking. The in. Suckaver ducti $n$ is writen much in the 1 lyle of Spencer, who, with fome probability, is luppuicd to have imitated this author.

In I 5 万I , his tragedy of Gorboduc was acted before Queen Eitenbeth by the gentlemen of the Inner Temple. This was the firft tolerable tragedy in our language. The Companion to the Playhoulie tells us, that the three firlt aets were written by Mr Tho. Norton. Sir Philip Sidney, in his Apology for Poetry, fays, th it is full of tately fieeches, and well-founding phrafes, climbing to the height of Seneca in liis Ayle, sid." Rymer !peaks highly in its commendation. Mr spience, at the infligation of Mr Pope, republiflied it in 1736, with a pompous preface. It is faid to be our firlt dramatic piece written in verle.

In the firft parliament of this reign, Mr Sackville was member for Suffex, and for Bucks in the lecond. In the mean time be made the tour of France and Italy, and in $1: 566$ was imprifoned at loome, when he was informed of his tather's death, by which he beczrae poffefied of a very confideable fortune.
Having now oblained his liberty, he returned to England; and being firft kuighted, was cieated Lord Buckhurlt. In $15 \%$ he was ient ambaffador to France. In 1586 he was one of the commiffioners appointed to try the unfortunate Mary queen of Scots; and was the mefienger employed to report the confirmation of her fentence, and to fec it executed. The year following he went ambaflador to the S:atcs General, in confequence of their complaint againft the earl of Leicefter; who, diliking his impartiaity, prevailed on the queen to recal him, and confine him to his houfe. In this fate of confinement he continued about 10 months, when Leicefter dying, be was reftored to favour, and in 1580 was inftalled knight of the garter: but the moft incontrovertible proof of the queen's partiality for Lord Buckhurft appeared in the year 159r, when tha caufed him to be elected chancellor in the univerfity of Oxford, in oppofition to her favourite Effex. In 159 S, on the death of the treafurer Burleigh, I std Buckizurit fucceeded lum, and by virtue of his ollice became in effect prime minifer; and when, in $16 \supset 1$, the earts ? Effex and Southampton were brought to tris.l, he fa. as lord high iteward on that awful occafion.

On the acceffion of James I. he was gracioully re ceived, had the office of lord high teeafurer confirmed to bim for life, and was created earl of Dorlet. Ile continued is high favour with the king till the day of his death; which happened fuidenly, on the roth of A pril 1628 , in the council chamber at Whitehall. He u as interred with great folemnity in Wefminiter abbey. He was a good poet, an able miniffer, and an honeft man. From him is defeended the prefent noble family of the Dorfets. "It were needlefs (fays Mr Walpole) to add, that he was the patriarch of a race of genius and wit."
Sackvilite, Charles, earl of D:rfet, a celehrated wit and poet, defcended from the foregoing, was born in 1637. He waя, like Villiers, Kochetter, Sedley, \&c. me of the lihertines of King Charies's cours, and fometimes indulged himfelf in inexcufable exceffes. Iis apenly difcountenanced the violent meafures of James 11 . and engaged carlv for the prince of Orange, by whom hei was made lord chamberlain of the houleh ' 4 , and taken

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Sacrament taken into the privy-council, He died in 5706 , and left feveral poetical pieces, which, though not confiderable enough to make a volume by themfelves, may be found among the noorks of the minor poets, publifhed in 1749.
S.1CRAMENT is derived from the Latin word facramertum, which fignifies an oath, parlicularly the oath taken by foldiers to be true to their country and gerieral. The words of this oath, according to Polybins, were, bbeetmperaturus fum et fatturus quicquid mandabitur ab imperatoribus justa vires. The word was adopted by the writers of the Latin church, and employed, perhaps with no great propricty, to denote thofe ordiriances of religion by which Chriftians came under an obligation, equally facred with that of an oath, to obferre their part of the covenant of grace, and in which they have the affurance of Chrift that he will fulfil his part of the fame covenant.

Of facraments, in this fenfe of the word, Proteftant churches admit of but two ; and it is not eafy to conceive how a greater number can be made out from Scripture, if the definition of a facrament be juft which is given by the church of England. By that church, the meaning of the word facrament is declared to be " an outward and vifible fign of an inward and fpiritual grace given unto us, ordained by Chrift himfelf as a means whereby we receive the fame, and a pledge to affure us thereof." According to this definition, baptifm and the Lord's Supper are certainly facraments; for each confifts of an ontward and vifible fign of what is believed to be an inteard and fpiritual grace; botb were ordained by Chrift himfelf, and by the reception of each does the Chriftian come under a folemn obligation to be true to his divine mafter, according to the terms of the covenant of grace. (See Baprism and SUpper of the Lord). The Romanifts, however, add to this number confirmation, penance, extreme anction, ordination, and znarriage, holding in all feven facraments; but two of thofe rites not being peculiar to the Chriftian church cannot poffibly be Chriffian facraments, in contradiftinction to the facraments or obligations into which men of all religions enter. Marriage was inflituted from the beginning, when God máde man male and female, and commanded them to be fruitful, and multir? ly and replenifh the earth; and penance, as far as it is of the fame import with repentance, has a place in all religions which teach that God is merciful, and men fallible.The external feverities impofed upon penitents by the church of Rome (fee Penaner:) may indeed be in forne refpects peculiar to the difcipline of that church, though the penances of the Hindoos are certainly as rigid; but none of theie feverities were ordained by Chrift limfelf as the pledge of an inward and fpiritual grace; nor do they, like baptifm and the Lord's Supper, bring men under obligations which are funpofed to be analogous to the meaning of the word facramentum. Confirmation has a betier title to the appellation of a facrament than any of the other five popith rites of that name. though it cert -iniy was not confidered as fuch by the cealieft writers of the Chrifian church, nor does it appeir to have been ordained by Chrift himfelf, (fee Confrrmation). Ordination is by many churches confidered as a very important rite ; but as it is not adminiftered to all men, nor has any particular form appropriated to it in the New Tulament, it cannot be
confidered as a Ctriftian facrament conferring grace ge- Sacrament nerally veccffary to falvation. It is rather a form of $\|$ authorifing certain perfons to perform certain offices, which refeect not themfelves but the whole chutch; and extreme unction is a rite which took its sife from the niraculous powers of the primitive church vainly claimed by the fucceeding clergy. (See Ordination and Extreme Unction). Thele confiderations feem to have fome weight with the Romifh clergy themfelves; for they call the eucharif, by way of eminence, the holy facrament. Thus to expofe the holy facrament, is to lay the confecrated hoft on the altar to be adored. The proceffion of the holy facrament is that in which this hoft is carried about the church, or about a town.

Numerous as we think the facraments of the Romifh church, a fect of Chriftians fprung up in England early in the current century who increafed their number. The founder of this fect was a Dr Deacon, we think, of Manchefter, where the remains of it fubfifted very Jately, and probably do fo at prefent. According to thefe men, every rite and every phrafe in the book called the Apofolical Confitutions were certainly in ufe among the apofles themfelves. Still, however, they make a diftinction between the greater and the leffer facraments. The greater facraments are only two, baptifm and the Lord's fupper. The leffer are no fewer than ten, viz. five belonging to baptifm, exorcifm, anointing with oil, the white garment, a tafle of milk and homey, and anointing with chrifm or ointment. The other five are, the fign of the crofs, impnotion of hands, undtion of the fick, holy orders, aad matrimony. Of the nature of thefe leffer facraments, or the grace which they are fuppofed to confer, our limits will permit us to give no account. -Nor is it neceffary that we fhould. The fect which taught them, if not extinguihed, is certainly in its laft wane. It has produced, however, one or two learned men; and its founder's Full, True, and Comprehenfive View of Chriftianity, in two Catechifms, is a work which the Chriftian antiquary will read with pleafure for information, and the philofopher for the materials which it contains for meditation on the workings of the human mind. It was publifhed in $8 v o$, in the year 1748.

Congregation of the Holy SACRAMENT, a religious eftablifhment formed in France, whofe founder was Autherius, bifhop of Bethlebem, and which, in 1644, received an order from Urban VIII. to have always a number of ecclefiaftics ready to exercife their miniftry among pagan nations, wherever the pope, or congregation de propaganda, fhow!d appoint.

SACRAMENTARIANS, a general name given to all fuch as have publifhed or held erroneous doctrines of the facrament of the Lord's Supper. The term is chiefly applied among Roman Catholics, by way of reproach, to the Lutherans, Calvinits, and other Proteftants.

SACRAMENTARY, an ancient Romifı churchbook, which contains all the prayers and ceremonies practifed at the celebration of the facraments.

It was wrote by Pope Gelafius, and afterwards revifed, corrected, and abridged, by St Gregory.

SACRE, or SAKER, in Ornithology, the name of a fpecies of falcon, called by authors falco facer, ard differently defcribed by different authors, but by all agreed to be an extremely bold and active bird. It is a native

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Sirt, of tive colthern regions of Europe; and a variety called Sacriace. by fome writers the foscled pariridge hawk is found at

Hudion's bay, North America.
S.CRED, fomething holy, or that is folemaly offered and co:iecrated to God, with bencdictions, unctions, \& c.

Kings, prelates, and prients, are reckoned facred parboas; abbots are only blefled.- The deaconhood, fubdeaconhord, and prieiliood, are ail facred orders, and ate faid to imprels a facred indelibie cbaratter. The cuitom of confecrating kings with holy oil is derived (fays Gutilingius) from the Hebrews; among whom, he agrees witi Grotius, it was never wied but to kings who had not an evident right by fucceffion. He adds, that the Chrikian emperors never ufed it before Juftin the younger; from whom he takes it to have palled to the Goths, \&xc.

Sacrisd is allo applied to things belonging to God and the church. Church-lands, ornaments, \& c. are held facred.- The facred college is that of the cardinals.

SACRED Maje/y, is applied to the emperor and to the king of England; yet Loyfean fays it is blafphemy. See Majesty. The ancients held a place ftruck with thunder as facred. In the civil law, facred place chiefly denotes that where a perfon deceafed has been interred.

## SACred Elixir. See Elixir.

SACRIFICE, an offering made to God on an altar, by means of a regular miniller, as an acknowledgment of his power, and a payment of homage. Sacrifices (though the tcrm is fometimes ufed to comprehend all the offerings made to God, or in any way devoted to his fervice and honour) differ from mere oblations in this, that in a facrifice there is a real deffruction or change of the thing offcred; whereas an oblation is only a fimple offering or gift, without any fuch change at all : thos, all forts of tythes, and firt fruits, and whatever of men's worldly fubftance is confecrated to God, for the fupport of his worfhip and the maintenance of his minifters, are offerings or oblations; and thefe, under the Jewifh law, were either of living creatures or other things: but facrifices, in the more peculiar fenfe of the term, were ether wholly or in part confumed by fire. They have by divines been divided into bloody and unbloody. Bloody facrifices were made of living creatures; unbloody of the fruits of the earth. They bave alfo been divided into expiatory, impetratory, and eucharifical. The firf kind were offered to obtain of God forgivenefs of fins; the fecond, to procure fome favour; and the third, to exprefs thankfulnefs for favours already received. Under one or other of the fe heads may all facrifices be arranged; though we are told, that the Egyptians had 666 different kinds, a number furpaffing all credibility.

Concerning the origin of facrifices very various opinions have been held. By many, the Phoenicians are fuppofed to have been the authors of them; though Porphyry attributes their invention to the Egyptians; and Ovid imagines, from the import of the name viction and hofia. that no bloody facrifices were offered till wars prevailed in the world, and nations obtained victories over their enemies. Thefe are mere hypothefos contradicted by the moft authentic records of antiquity, and entitled to no regard.

By modern deifs, facrifices are faid to have had their By in encrisee, or. in fopertition, which operates much in the lame way in every country. It is therefore weak, according to thofe men, to derive this practice from any partra cular peopic; fince the fame mode of reafoning would lead various nations, without any intercourfe with each other, to entertain the fame opinions refpecting the nature of their gods, and the proper means of appeafing their anger. Men of grofs conceptions imagine their: deities to be like themfelves, covetous and cruel. They are accuftomed to appeafe an injured neighbour by a compoficion in money; and they endeavour to compound in the fame manner with their gods, by rich offerings to their temples and to their priefts. The molt valuable property of a fimple people is their cattle. Thele offered in facrifice are fuppofed to be fed upon by the divinity, and are actually fed upon by his priefts. If a crime is committed which requires the punifhment of death, it is accounted perfectly fair to appeafe the deity by offering one life for another; becaule, by favages, punifhment is confidered as a debt for which a man may compound in the beft way that he can, and which one man may pay for another. Hence, it is faid, arofe the abfurd notions of imputed guilt and vicarious atonement. Among the Egyptians, a white bull was chofen as an expiatory facrifice to their god Apis. After being killed at the altar, his head was cut off, and caft into the river, with the following execration: "May. all the evils impending over thofe who perform this facrifice, or over the Egyptians in general, be averted on this head *."

## * Herodo-

Had facrifice never prevailed in the world but among tus, lib. ii fuch grofs idolaters es worftipped departed heroes, who were fuppofed to retain in their fate of defication all the paffions and appetites of their mortal ftate, this account of the origin of that mode of worlhip would have been to us perfectly fatisfactory. We readily admit, that fuch mean notions of their gods may have actually led far diftant tribes, who could not derive any thing from each other through the channel of tradition, to imagine that beings of human paffions and appetites might be appealed or bribed by coflly offerings. But we know from the moft incontrovertible authority, that facrifices of the three kinds that we have mentioned were in ufe among people who worllipped the true God, and who muft bave had very correct notions of his attributes. Now we think it impoffible that fuch notions could have led any man to fancy that the taking away of the life of a larmlefs anmal, or the burning of a cake or other fruits of the earth in the fire, would be acceptable to a Being felf-exiftent, ommipotent, and omnifcient, who can neither be injured by the crimes of his creatures, nor receive any accefion of happinefs from a thouland worlds.

Senfible of the force of fuch reafoning as this, fome perfons of great name, who admit the authenticity of the Jewifh and Chritian fcriptures, and firmly rely ou the atonement made by Cbrift, are yet unwilling (it is difficult to conceive for what reafon) to allow that facrifices were originally inftituted by God. Of this way of thinking were St Chryfoitom, Spencer, Grotius, and Warburton, as were likewife the Jews Maimonides, R. Levi, Ben Gerfon, and Abarbanel. The greater part of thefe writers maintain, that facrifices were at firl a human inftitution; and that God, is onder to prevent

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Sarrifice, their being offered to idols, introduced them into his fervice, though he did not approve of them as good in themfelves, or as proper rites of worfhip. That the infinitely wife and good God fhould introduce into bis fervice improper rites of worfhip, appears to us fo extremely improbable, that we cannot but wonder how fuch an opinion Chould ever have found its way into the minds of fuch men as thofe who held it. Warburton's theory of facrifice is much more plaufible, and being more lately publifhed, is worthy of particular examination.

According to this ingenious prelate, facrifices had their origin in the fentiments of the kuman heart, and in the ancient mode of converfing by action in aid of words. Gratitude to God for benefits received is na. tural to the mind of man, as well as his bounden duty.

* Divine

Leg. b. ix.
c. 2. "This duly (fays the bifhop") was in the moft early times difcharged in expreffive actions, the leaft equivocal of which was the offerer's bringing the firft fruits of pafturage or agriculture to that fequeftered place where the Deity ufed to be more folemnly invoked, at the ftated times of public wormip; and there prefenting them in homage, with a demeanor which foke to this pur-pofc.-' I do hereby acknowledge thee, O my God! to be the author and giver of all good: and do now, with humble gratitude, return my warmeft thanks for thefe thy bleffings particularly beftowed upon me."-Things thus devoted became thenceforth facred : and to prevent their defecration, the readieft way was to fend them to the tabie of the prien, or to confume them in the fire of the altar. Such, in the opinion of our author, was the origin of euchar:fical facrifices. Impetrotory or precative facrifices had, he thinks, the fame origin, and were contrived to exprefs by action an invocation for the continnarce of God's favour. "Exriatory facrifices (fays the learned prelate) were in their own nature as intelligible, and in practice as rational, as either of the other two. Here, inftead of orefenting the firft fruits of agriculture and palfurage, in corn, wine, cil, and wool, as in the cuchariflical, or a portion of what was to be fown or otherwife propagated, as in the impetralory; fome chofen animal precious to the repentine criminal who deprecates, or fuppofed to be obnoxjous to the Deity who is to be anpeared, was offered up and $\{$ ain at the altar, in an aftion which, in all languages, when tranflated into words, fpeaks to this pur-pofe:- ${ }^{t}$ I confers my tranfercefions at thy footfool, O my God: and with the dcepeft contrition im lore thy pardon; confeffing that I deferve death for thefe my offences.' - The latter part of the confeffion was more forcibly exprefed by the action of Atiking the devoted animal, and depriving it of life; which, when put into words, concluded in this manner.-' And I own that I myfelf deferve the death which I now infict on this animal.'

This fyftern of facrifice, which bis lordflhip thinks fo well fupported by the moft early movements of fimp'e nature, we admit to be irigenious, hut by no means fintisfactory. That markind in the eatlier ases of the world were accufomed to funnly the deficiencies of their language by expreffive gefticulations we are not inclined to controvert : the cuftom prevails among favage nations, or nations half civilized, at the prefent day. His lordflip, however, is of opinion, and we heartily surree swith him, that our finf parcnts were infrueted by God
to make articulate founds finnificant of ide notions, Sre:ifice. and things (fee LaÑgage, $\mathbf{N}^{\prime} 6$.), and not left to fabricate a language for themfelves. That this heaventaught language could be at fift copious, no man vill fuppofe, who thinks of the paucity of ideas shaich tho'e who fpoke it had to exprefs; but when we confider its origin, we cannot entertain a doubt but that it u*' precife and perfpicuous, and admirably acapted to all the real purpofes of life. Among thele purpoles mult furely be included the worftip of God as the moft important of all. Every fentiment therefore which enters into worfhip, gratitude, invocation, conffffion, and deprecation, the progenitors of mankind were unduubtedly taught to clothe in words the moft fignificant and unequivocal ; but we know from Moles, nhofe divine legation the bifhop furely almitted, that Cain and Abel, the eldeft children of our fift parents, worfhipped God by the rites of facrifice: and can we fuppofe that this practice occurred to them from their having fo far forgotten the language taught them by their father, as to be under the neceflity of denoting by action what they could not expref's by words? If this fuppofition be admitted, it will force another upon us itill more extravagant. Even Adam himfelf mult, in that cafe, have become dumb in confequence of his fall; for it is not conceivable, that as long as he was able to utter articulate founds, and affix a meaning to them, he would ceafe in the prefence of his family, to confefs bis fins, implore forgivenefs, and exprefs lis gratitude to God for all his mercies.

The right reverend writer, as if aware of fome fuch objection as this to his theory, contends, that if facrifices had arifen from any other fource than the light of reafon, the Scripture would not have been filent concerning that fource; "efpecially fince we find Mofes carefully recording what God immediately, and not nature, taught to Adam and his family. Had the original of facrifice, fays he, been prefcribed, and direetly commanded by the Deity, the facred hiftorian could never have omitted the exprefs mention of that circumftance. The two capital obfervances in the Jewifh ritual were the Sabbath and Sacrifices. To imprefs the higheft reverence and veneration on the Sabbath, he is careful to recold its divine original : and can we fuppofe that, had facrifices had the fame original, he would have neglected to eitablifh this truth at the time that he recorded the other, fince it is of equal ufe and of equal importance ? I fhould have faid, indeed, of much greater; for the multifarious facrifices of the Law had not only a reference to the forfeiture of Adam, but likewife prefigured our redemption by Jefus Chrift."

But all this reafoning was forefeen, and completely anfwered before his lordhip gave it to the public. It is probable, that though the diftinction of wecks uis well known over all the eaftern world, the Hebrews, during their refidence in Egypt, were very negligert in their oblervance of the Sabbath. To enforce a religicus cbfervance of that facred day, it became neceffary to inform them of the time ard occefion of its firf inftitution, that they might keep it holy in memory of the creation; but, in a country like Egypt, the people were in dar:ger of holding facrifices rather in too high than too low veneration, fo that there was not the fame neceility for mentioning explicitly the early inllitution

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Sacrifice, of them. It was fufficient that they knew the divine inflitution of their own facrifices, and the purpot: for which they were offered. Befides this, there is reafon to beliere, that, in order to guard the IIel cess from the infections of the heathen, the rite of facrificing was loaded with many additional ceremonies at its fecond inflitution under Moles. It might, therefore, be improper to relate its original fimplicity to a reb-lious poopic, who would think themfelves ill-ufel by any additional burdens of trouble or expence, however really neceffiary to their happinefs. Bifhop War urton fec clearly the meceffity of concealing from the Jews the fpiritual and refined nature of the Chritian difpenfation, left fuch a backlliding people fhould, from the contemplation of it, have beld in contempt their own economy. This, he thinks, is the reafon why the prophets, fpeaking of the reign of the M_efliah, borow their images from the NIoSaic difpenfation, that the people living under that difpenfation might not defpife it from perceiving is end; and we think the reafon will hold eraually good for their lawgiver concealing from them the fimplicity of the firit facrifices, left they fhould be tempted to murmar at their own mullifarious ritual.

But his lordmip thinks that facrifices had their origin from the light of natural reafon. We fiould be glad to know what light natural reafon can throw upon fuch a fubject. That ignorant pagans, adoring as gods departed heroes, who fill retained their fenfual appetites, might naturally think of appeafing fuch beings with the fat of fed ue.nn; and the perfumes of the altar, we have already admitted; but that Cain and Abel, whoknew thet the God whom they adored has neither body, parts, nor paflions; that he creaied and fuftains the univerfe; and that from his very nature he muft will the happinefs of all his creatures, floutid be led by the light of natural reafon to think of appeafing him, or obtaining favouss from him, by putting to death harmlefs animals, is a pofition which no arguments of his lordhip can ever compel us to admit. That Abel's facrifice was indeed accepted, we know; but it was not accepted becaufe it procceded, from the movements of the human mind, and the deficiency of the original language, but becaufe it was offered through faith. The light of natural reafon, however, docs not generate faith, but fcience; and when it fails of that, its offspring is abfurdity. "Faith is the fubitance of things hoped for, the evidence of things not feen," and comes not by reafoning but by hearing. What things then were they of which Abel had heard, for which he hoped, and in the faith of which he offered facrifice?

- Undoubtedly it was a refloration to that immortality which was forfeited by the tranfgrefion of his parents. Of fuch redemption an obfcure intimation had been given to Adam, in the promife that the feed of the woman fhould bruife the head of the ferpent ; and it was doubtlefs to imprefs upon his mind in more friking colours the manner in which this was to be done, that bloody facrifices were firf inftituted *. As long as the import of fuch rites was thus underfood, they conftituted a perfectly rational worlhip, as they frowed the people that the wages of fin is death; but when men funk into idolatry, and loft all hopes of a refurrection from the dead, the floughtering of animals to appeafe their deities was a practice grofsly fuperflitious. It refted in itfelf without pointing to any farther end, and

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the groveling wowhirpers believed that by their fa- Saerbic. cririces thzy purchafed the favour of their deities. When once this notion was entertained, human facrifices were foon introduced; for it naturally occurred to thofe who offered them, that what they moft valucd thenfelves would be moft acceptable to their offended gods, (fee the next article). By the Jewith law, thele abominable offerings were ftrietly fo bidden, and the whele ritual of facrifice reflored to its original purity, though not fimplicity.

All Chriftian churches, the Socinian, if it can be called a church, not excepted, have till very lately agreed in beieving that the Jerrif, facrifices fervct, amongt other ufes, fur types of the death of Chritt and the Chrifian worfip, (fee Type.) In this belief all Cuber Chrittians agree fill, whiitt many are of opition that they were likewife foederal rites, as they certainiy were contidered ly the ancient Roman. ${ }^{2}$.

Of the various kinds of Jexrifh facrifices, and the fu's- *it. Lis, ord: ...re ends for which they were offered, a full ac- $\mathrm{h}, \mathrm{xxi}$. count is عiven in the books of Mofes. When an If eap. 45* raeite of cred a loaf or a cake, the prieft broke it in two parts; and fetting afide that half which be referved for himfelf, broke the other into crambs, poured cil, wine, incenfe, and falt noon it, and fread the whole upon the fire of the altar. If thefe offcrings were accompanied with the ficrlfice of an animal, they were thrown upon the victim to be conlamed along with i'. If the offeri gs were of the ears of new corn, they were parched at the firc, rubbed in the hand, snd then of. fered to the prieft in a vellel, over whicb he poured oil, incerfe. wine, and falt, and then burnt it upon the altar, having firft tiken as much of it as of right belonged to bimifel:

The principal facrifices among the Ficbrers conifted of bullocks, heep, and goats; but doves and turtles were accepied from thofe who were not able to bring the other: thefe beafts were to be perfect, and without blemilh. The rites of facrificing were various; all of which are minutely defcrived in the books of Mo. fes.

The manner of facrificing among the Grecks and Romans was as follows. In the choice of the vietim, they took care that it was without blemih or imperfection; itstail ras not to be too finall at the end; the tongue not black, nor the ears cleft; and that the bull was one that had never been yoked. The victim being pitched upon, they gilt his forchead and horns, efpecially if a bull, heifer, or cow. The head they alfo adoried with a garland of flowers, a woollen infula or holy fillet, whence hung two rows of chaplets with twited ribands; and on the middle of the body a kind of fole, pretty large, hung down on each fide; the leffer victims werc only adorned with garlands and bundles of flowers, together with white tufts or wreaths.

The victims thus prepared were brought before the altar; the leffer being driven to the place, and the greater led by an halter; whien, if they made any ftruggle, or refufed to go, the refiftance mas taken for an ill omen, and the factifice frequently fet afide. The victim thus brought was carefully examined, to fee that. there was no defect in it; then the prieft, clad in his facerdotal habit, and accompanied with the facrificers

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atcrifier. and other attendants, 2nd being wafhed and purifed ac$\xrightarrow{+}$ cording to the ceremonies prefcribed, turned to the right hand, and went round the altar, fprinkling it with meal and-holy water, and alfo befprinkling thofe who were preient. Then the crier proclaimed with a lond voice, Who is here? To which the people replied, Many and good. The prieft then having exhorted the people to join with him by faying, Let us pray, confeffed his own unworthinefs, acknowiedging that he had been guilty of divers fins; for which he begged pardon of the gods, hoping that they would be plealcd to grant his requells, accept the oblations offered them, and fend them all health and happinels; and to this general form added pelitions for fuch particular favours as were then defired. Prayers being ended, the prieft took a cup of wine; and having tafted it himlelf, cauled his affutants to do the like; and then poured forth the remainder between the borns of the vicim. Then the prielt or the crici, or fometimes the moft honourable perfon in the company, killed the beaft, by knocking it down or cutting its throat. If the facrifice was in honour of the celeftial gods, the throat was turned up towards heaven, but if they facrificed to the heroes or infernal gods, the victim was killed with its throat towards the ground. If by accident the beaft efcaped the ftroke, leaped up after it, or expired with pain and difficulty, it was thought to be unacceptable to the gods. The beaft being killed, the prieit infpeeted its entrails, and made rredictions from them. They then puured wine, together with frankincenfe, into the fire, to increafe the flame, and then laid the facrifice on the altar ; which in the primitive times was burnt uhole to the gods, and thence called an hulocauf ; but in after-times, only part of the victim was confumed in the fire, and the remainder referved for the facrificers; the thighs, and fometimes the entrails, being burnt to their honour, the company feafted upon the reft. During the facrifice, the pricit, and the pertion who gave the facrifice, jointly prayed, laying their hand upon the altar. Sometimes they played upon mufical inftruments in the time of the facrifice, and on fome occafions they danced round the altar, finging facred hymns in honour of the god.

Human SACBIFICES, an abominable practice, about the ori in of which different opinions have been form-ed.- The true account feems to be that which we have given in the preceding article. When men had gone fo far as to indulge the fancy of bribing their gods by facrifice, it was natural for them to think of enhancing the value of fo cheap an atonement by the coff and rarity of the officring; and, oppreffed with their malady, they never refed till they fad got that which they conceived to be the mof pecious of all, a human facrifice.
"It was cuftumary (fays Sanchoniathon *), in ancient times, in great and puolic calamities, before things becarre incurable, for princes and magitrates to offer up in Cacrifice to tl.c avenging damons the deareft of their cffspring:" Senchoniathon wrote of Phœenicia, lut the practice frevailed in every nation under heaven of which we have received any ncient account. The Efyptians had it in the early p.It of their noo archy. The Cretans likewife had it, and ret ined it for a long time The talions of Ata ia id the fame. The people of Dutash, in parlicolar, f cifeced ev-ry year a clild, and buried it underma. 4 in altir, which they maide ufe of
inftead of an idok; for they did not ndenit of imagee: Sactifice: The Perfians buried people alive. Ameftris, the wife of Xerses, entombed 12 perions quick under ground for the good of her foul. It would be endlels to enumerate every city, or cyery province, where thele dire practices obtained. The Cyprians, the Khodians, the Phoceans, the lonians, thole of Chios, Lcibus, T'enedos, all had human facrifices. The natives of the Tauric Cherlonefus, offered up to Diana every ftranger whom chance threw upon their coalt. Hence arofe that juit expoftulation in Euipides upon the inconfiftency of the proceeding; wherein much good realoning is implied. Iphigenia wonders, as the goddels delight$e d$ in the blood of men, that every villain and murderev: fhould be privileged to efcape, nay, be driven from the threftold of the temple; whereas, if an honef and virtuous man chanced to itray thither, he only was leized upon, and put to death. The Pelafgi, in a time of fcarcity, vorred the tenth of all that fhould be born to them for a facrifice, in order to procure plenty. Ariftomenes the Mefienian flew 300 noble Lacedemonians, among whom was $I$ heopomptis the king of Sparta, at the altar of Jupiter at Ihome. Without doubt the Lacedemonians did not fail to make ample returns; for they were a fevere and revengeful people, and offered the like victims to Mars. Their feftival of the Diamaltigofis is well known; when the Spartan boys were whipped in the fight of their parents with fuch feverity before the altar of Diana Orthia, that they often expired under the torture. Phylarchus affirms, as he is quoted by Porphyry, that of old every Grecian flate made it a rule, before they marched towards an enemy, to folicit a blcffing on their undertakings by heman victims.

The Romans were accuftomed to the like facrifices: They both devoted themfelves to the infernal gods, and conilrained others to fubmit to the fame horrid doom. Hence we read in Titus Livius, that, in the confulats of Emilius Paulus and Terentius Varro, two Gauls ${ }_{3}$ a man and a woman, and two in like manner of Greece, were buried alive at Fome in the Ox-market, where was a place under ground walled round, to receive them; which had before been made ufe of for fuch cruel purpofes. He fays it was a facrifice not properly Roman, that is, not originally of Roman inftitution; yet it was frequently praclifed there, and that too by public authority. Plutarch makes mention of a like inftance a few years before, in the confulfhip of Flaminius and Furius. There is reafon to think, that all the principal captives who graced the triumphs of the Komans, were at the clufe of that cruel pageantry put. to death at the altar of Jupiter Capitolinus. Caius Marius offered up his own daugliter for a victim to the Dii $\Lambda$ verrunci, to procure fuccels in a tattle againft the Cimbri; as we are informed by Dornthens, quoted by Clemens. It is likewife attefted by Plitarch, who fays that her name was Calpurnia. Marius was a man of a four and bloody difpolition; and had probably keard of fuch factifices being offered in the enemy's camp, among whom they ure very cemmon, or he nighlit lave beheld them exlibited at a diflance; and therefure murd red what was neare lt, and ftoculd lave been deareft to him, to counteract their few ul Cpells, and undo them in thicir wicked macliticy. Ciceto, making mention of this cuftom being cen mon in Gzul, add,

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Sacrifice. adds, that it prevailed among that people even at the time he was fpeaking; from whence we ray be led to infer, that it was then difcontinued among the RoEas.1s. A.d we are told by Pliny, that it had then, and not vezy long, been dicouraged. For there was a law enacted, whon Lentu'us arid Craflus were confuls, to tate as the $657^{\text {h }}$ h year of Rome, that there fhou Id be us more human facr fies : for till that time thule horrid rites had been celcbrated in broad day with ut any mak or controul; whith, had we nut the be $t$ evidence for the $t . . c t$, wo $!d$ appear learcely cred ole. And however they may hive been difcontir ued for a tinie, we Gi:d that they were again renewed; thoug in they became not fo public, nor fo general. For not vety long after this, it is reported of Auguttuc Cæfar, witn Peralia furrendered in the time of the focond triumvirate, that befiles multitudes executed in a military manner, he offered up, upon the ides of March 300 cholen perfons, both of the equettrian and fenatorial order, at an altar dedicated to the manes of his uncle Julius. Even at Rome itfelf this cuftom was revived : and Porphyry affures us, that in his time a man was every year facrificed at the fhrine of Jupiter Latialis. Heliorabalus offered the like victims to the Syrian deity which he introduced among the Romans. The fame is faid of Aurelian.

The Gauls and the Germans were fo devoted to this fhocking cuttom, that no butinefs of any moment was tranfacted annong them wihout being prcfaced with the blood of men. They were offered up to various gods; but particularly to Hefus, Taranis, and Thautates. Thefe deities are mentioned by Lucan, where he enumerates the various nations who followed the fortunes of Cæfar.

The altars of thefe gods were far removed from the common refort of men; being generally fituated in the dep:h of woods, that the gloom midit a ld to the horror of the ope:.ion, and give a reverence to the place and proceeding. The perfons devoted were led thither by the Druids, who proficed at the foleminty, and performed the cuel offices of the facrifice. Tacitus takes notice of the cruelty of the Hermunduri, in a war with the Catti, wherein they had greatly the advantage; at the clofe of which they made one general facrifice of all that was taken in battle. The poor remains of the legion under Varus fuffered in fome degree the fame fate. There were many places deffined for this purpofe all over Gaul and Germany ; but efjecially in the mighty woods of Arduenna, and the great Hercynian forell; a wild that extended above 30 days journey in length. The places fet apart for this folemnity irere held in the utmoft reverence, and culy approached at particular feafons. Lucan mentions a grove of this fort near Maflilia, which even the Roman foldic rs were afraid to violate, though commanded by Cie ar. It was one of thufe let apart for the facrifices of the country.

Claudian compliments Stilicho, that, among other advantages acruing to the Roman armies through hi conduct. they could now ven u:e into the awfil foref of Hercynia, and f How the chafe in thefe fo much dreaded wode, and otherwife make ufe of them.

Thefe praclices prevailed amorg all th cople of the north. of whatever denomination. The Maffage:æ the Sirythians, the Cetes, the Sarmations, all the various na-
tiors upon the Baltic, particularly the Suevi and 5 andinavians, beld it as a fixed principle, that their happinefs and fecurity could not be obtained but at the cxpence of the lives of others. Their clicef gods we: Thor and Woden, whom they th t , he they could sevei fufficiently blut with blood. Tl.ey had many very of 1. rated places ci vorllipr; efpecially in the inl. i Rugen, newr the musth of the Oier; and in Zeeland: fome, too, very famous among the Semn ins and $\mathrm{N}_{2}$ harvalli. But t'ie moll reverenred of all, and the moft frequented, was at Upfal ; where there was every y ar a.grand celebrity, which cont-nued for nine days. During this term they facrificed animals of all furts: Lut the molt acceptal le victims, and the moft numeren, were mon. Of thefe fucifices mone were cfteen d fo atifpicious and dalutary as a facrifice of the prince ot the country. When the lut fell for the king to die, it w... received with univerfal acclamations and every expreffion of joy; as it once lappened in the time of a famine, when they caft lotc, and it fell to King Domal. der to be the people's victim : and he was accordingiy put to death. Olaus 'Tretelger, another prince, wais bunt alive to Woden. They did not fpare their o:xn child:en. Harald the fon of Gunild, the firit of that name, flew two of his children to obtain a ftorm of wind. "He did not let (hiys Verftegan) to facrifice two of his tons unto his idals, to the and he might ob tain of them luch a tempe!t ot fe?, as thould break and difper'e the thipping of H.rald king of Denmark." Saxo Grammaticus mentions a like fact. He calls the king Haquin ; and fpeake of the perfons put to death as two very hopeful voung princes. Another king flew nine fons to proloing his own life; in hopes, perhaps, that what they were abridiged of would in great me.fire be added to himfelf. Such inflances, however, occur not often: but the common rictims were without ed d . Adam Bremenfis, fpeaking of the awful grove at Upfal, where thefe horrid rites were celebrated, fays, that there was not a fingle tree but what was revercniced, as if it were gifted with fome portion of divinity: and all this becaufe they were ftained with gore and foul with human putrefaction. The fame is oluerved by Scheiffer in his account of this place.

The manner in which the rictims were flaughtered, was diverfe in different places. Some of the Gaulith nations chined them with a froke of an axe. The Cella placed the man who was to be offered for a facrifice upon a block, or an altar, with his breaft upwards, and with a fword frack him forcibly acrofs the thernum; then fumbling him to the ground, from his agonies and convulfions, as well as from the effufion of blood, they f. rmed a judgement of future events. The Cimbri rip. fed open the borels; and from them they pretended to divite. I. Norway they beat men's brains out with an ox-voke. The fime o, eration was performed in Ice. land, by dafling them againft on altar of llone. In many places they transfixed them with arrows. Afothey were dead, they fuf ended them upon the trees, and left them to putrefy. One of the writers above quoted nientions, that in his time 70 carcafes of this fort were found in a roood of the Suevi. Dithmar of Merfour h. an suthor of nearly the fame age, fpe. is cf a place c lled Ledur in Zeeland, where there were every year 09 Derfans facrificed to the god Swantowite. During theie bloody fellivals a general joy prevailed. nud
banjuc.,

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Sa:ciese. banquets were mult royally ferved. They fed, caroufed, and gave a loofe to indulgence, which at other times was not permitted. They imagined that there was fomething myfteri us in the number nine: for which reafon thefe feafls were in fome places celebrated every rinth year, in others every ninth month; and continued for nine daus. When all was ended, they wafhed the image of the deity in a pool; and then difmiffed the añernbly. Their lervants were numerous, who attended during the term of their feating, and partook of the banquet. A. the clofe of all, they were fmothered in the fame pool, or otherwife made away with. On which Tacitus remarks, how great an awe this circumflance mult neceifarily infue thto thofe who were not almitted to thefe myीneries.

Thefe accounts are handed down from a varicty of authors in different ages; many of whom were natives of the countries which they delcribe, and to which they feem firongly attached. They would not therefore have brought fo foul an imputation on the part of the world in favour of which they were each writing, nor could there be that concurrence of teflimony, were not the hiflory in geneal true.
The like cu:tom prevailed to a great degree at Mexico, and even under the mild government of the Peruviants ; and in molt parts of America. In Africa it is ftill kept up; where, in the inland parts, they facrifice fome of the captives taken in war to their fetiches, in order to fecure their farour. Snelgrave was in the king of Dahoome's camp, after his inroad into the countries of Ardra and Whidaw ; and fays, that he was a witnels to the cruelty of this prince, whom he faw facrifice multitudes to the deity of his nation.

The fame abominable worfhip is likerwife practifed occafionally in the illands vifited by Captain Cook, and other circumnavigators, in the South fea. It feems indeed to have prevailed in every country at one period of the progrefs of civilization, and undoubtedly had the origin which we have affigned to it.

The facrifices of which we have been treating, if we except fome few infances, confifted of perfons doomed by the chance of war, or affigned by lot, to be offered. Eut among the mations of Canaan, the vietims were peculiarly chofen. Their own children, and whatever was nearelt and deareft to them, were deemed the molt worthy offering to their god. The Carthaginians, who were a colory from Tyre, carried with them the religion of their mother country, and inffituted the fame worflip in the parts where they fettled. It confifted in the adoration of feveral decities, but particularly of Kronus; to whom they offered human facrifices, and e.pecially tie blood of children. If the parents were not at h.od to make an immediate offer, the magiftrates did not fail to make choice of what was moft fair and promining, that the god might not be defrauded of his dues. Upon a check being received in Sicily, and fome other alarming circumftances happening, Hamilcar vithout any hefitation laid hold of a boy, and offered him on the fpot to Kronus; and at the fame time crowned a number of priefts, to appeafe the deity of the fia. The Carth giniars another time, upon a great defeat of their army by Agrathocles, imputed their milcarriages to the anger of this god, whofe fervices had been nee lected. Touched with this, and feeing the enemy at their gates, they feized at once 300 childiren of the
prime nobility, and offered them in public for a facri- Sacerifee, fice. Three bundred more, being perfons who were fomehow obnoxious, yielded themfelves voluntarily, and were put to death with the others. The neglect of which they acculed themfelves, confifted in facrificing children purchafed of parents among the poorer fort, who reared them for that purpofe, and not felectiang the molt promifing, and the mot honourable, as bad been the cuitom of old. In fiort, there were particular children brought up for the altar, as theep are fattened for thie flambles; and they were bought and butchered in the fame manner. But this indifrriminate way of procecding was thought to have given offence. It is remarkable, that the Egyptians looked out for the moff fipecious and landiome perfon to be facrificed. The Albanians pitched upon the belt man of the comnumity, and made him pay for the wickcdnefs of the reft. The Carthaginians chofe wbat they thought the molt excellent, and at the lame time the molt dear to them ; which made the lot fall heavy upon their children. This is taken notice of Silius Italicus in his fourth book.

Kronus, to whom thefe facrifices were exhibited, was an oriental deity, the god of light and fire ; and therefore always worfhipped with fome reference to that elcment. Sce Phoexicia.

The Greeks, we find, called the deity to whom thefe offerings were made Agraulos; and feigned that the was a woman, and the daughter of Cecrops. But how came Cecrops to have any connection with Cyprus ? Agraules is a corruption and tranipofition of the original name, which fhould have been rendered Uk El Aur, or $l k E l$ Aurus; but has, like many other oriental titles and names, been lirangely fophifficated, and is here changed to Agraulos. It was in reality the god of light, who was always worfhipped with fire. This deity was the Moloch of the Tyrians and Canannites, and the Meleclz of the eaft ; that is, the great and principal god, the god of light, of whom fie was effeemed a ly mbol; and at whofe firine, inftead of viler victims, they officed the blood of men.

Such was the Kronus of the Greeks, and tie Moloch of the Ploenicians : and nothing can appear more fhocking than the facrifices of the Tyrians and Carthoginians, which they performed to this idol. In all emergencies of ftate, and times of general calamiiy, they devoted what was moft neceffary and valuable to them for an offering to the gods, and particularly to Moloch. But befides thefe undetermined times of blocothed, they had particular and prefcribed feafons every year, when children were chofen out of the mol! noble and repulable families, as before mentioned. If a perfon had an only child, it was the more liable to be put to death, as being efteemed more acceptable to the deity, and more efficacious for the gencral good. Thofe who were facrificed to Krones were thrown into the arms of a molten idol, which ftood in the niiall of a large fire, and was red with heat. The arms of it werc ftrecthed out, with the hands turned upwards, as it wiele to receive them; yet floping downwards, fo that they dropt from thence into a glowing furlace teiow. To other gods they were othervife flaughtered, and, as is implied, by the very hands of their paren's. What can be more horrid to the imagination, than to fuppofe a father leading the deareft of all his fons to fuch an infernal
flrine ?

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Sa.rikce. flurine? or a mother the moft engaging and affectionate of her daughters, juit rifing to maturity, to be flaughtered at the altar of Afhtarvth or Baal ? -Juitin delcribes this unnatural cu!tom very pathetically : © ${ }^{\text {rippe homi- }}$ nes, ut vi'ilimas, immolabant; et impuberes (quce crias hof (uum my/ericordiam provocat) aris admovebant ; pacert. fantsuine esrum expofcentes, pro quorum vita Dii rogari maxime folint. Sach was their blind zeal, that this was continually practifed ; and fo much of natural affection itill left unextinguifhed, as to remier the feene ten times more thocking from the tendernefs which they feened to exprefs. Incy embraced their children with great fondnets, and encouraged them in the gentle:t terms, that they might not be appalled at the fight of the hellith procels; begging of them to fubmit with cheerfulneis to this fearful operation. If there w.s any appearance of a tear riling, or a cry unswates efcaping, the mother fmothered it with her kiffes, that there might not be any fhow of backwardnefs or conftraint, but the whole be a free-will offering. Thele crucl endearments over, they ftabbed them to the heart, or otherwife opened the fluices of life; and with the blood wa:m, as it rast, befmeared the altar and the grim vifage of the idol. Thefe were the cuftoms which the Ifraelites learnel of the people of Canaan, and for which they are upbraided by the Pialmit: "They did not dettroy the nations, concerning whom the Lord commanded them; but were mingled among the heathen, and learned their works: yea, they facrificed their fons and their daughters unto devils, and thed innoceat blood, even the blood of their fons and of their daugheers, whom they facrificed unto the idols of Canaan; and the land was polluted with blood. Thus were they defled with their own works, and went a-whoring with their own inventions."

Thefe cruel riles, practifed in fo many nations, made Plutarch debate with himfelf, "Whether it would not have been better for the Galatæ, or for the Scychians, to lave had no tradition or conception of any fuperior beings, than to have formed to themiflves notivis of gods who delighted in the blond of men ; of gods, who efteemed haman victims the moft acceptable and perfect facrifice? Would it not (fi.gs he) have been more eligible for the Carthaginians to have had the athein Critias, or Diagoras, their lawgiver, at the commencement of their polity, and to have been taught, that tisere was nether god nor demon, than to bave facrinced, in the manner they were wont, to the god which they adored? Wherein they acted, not as the perfon did whom Empedocles defcribes in fome poetry, where he expofes this unnatural cuftom. The fire there with many idle vows offers up unwittingly his fon for a facrifice; but the youth was fo changed in fcature and and figure, that his father did not know him. 'Thefe people ufed, knowingly and wilfully, to go through this bloody work, and flaughter their own offspring. Even they who were childlefs would not be exempted from this curfed tribute; but purchafed children, at a price, of the poorer fort, and put them to death with as little remorfe as one would kill a lamb or a chicken. The mother, who facrificed her child, flood by, without any fceming fenfe of what fhe was lofing, and without uttering a groan. If a ligh cid by chance efrape, fhe loit all the honour which fhe propofed to herfelf in the offering, and the child was notwithftanding fain. All the time
of this ceremory, ulit. the childeren were murdering, there was a noile of ciarions and tabors fuunding before the idol, that the cries and fhrieks of the viclims nigcht not be lieard. "Tell me now (ays Plutarch) if the monfters of old, the Typhons and the giant:, were to expel the gads, and to ruic the world in their Read; could they sequire a fervice more horrid than thele infernal rites and factilices ?"

SACillLEGE, SACRILEGIUM, the crime of profaning facred things, or things devoted to God ; or of alienating ta laymen, or common purpofes, what was given to religious perfons and pious ules.

SACRISIAN, a church-olficer, otherwife called Sexton.

SACRISTY, in church-lifiory, an apartment in a church where the facred utenfils were kept, being the fame with our VESTRY.

SADDLE, is a feat upon a horf's back, contrived for the conveniency of the rider.

A hunting-faddle is compoled of two bows, two bands, fore-bolfters, pannels, and iaddle-ftraps; and the great faddle has, befides thefe parts, corks, bind-bolflers, and a trouffequin.

The sommel is common to both.
SADDUCEES, were a famous fect among the an* cient Jews, and confilked of perfons of great quality and opulence. Refpecting their origin there arc various accounts and various opinions. Epiphanius, and afier him many other writers, contend, that they took their rifs from Dofitheus a Cectary of Samaria, and their name from the Hebrew word ptis juf or jis fice, from the gzeat juftice and equity which they flowed in all their actions; a derivation which neither fuits the word Sadiucce nor the general character of the $i \in c t$. They are thought by fome too to have been Samaritans; but this is by no means p:obable, as they always attended the worlhip and factivices it Jerufalem and never at Gesizzins.

In the Jewifh Talmud we are toid that the Sadducees derived their name from Sadoc, and that the Ceat arofe about 260 ycars before Chrit, in the time of Antigonus of Socho, prelident of the Sashedrim at Jerufalem, snd teacher of the law in the principel divinity fohool of that city. He had often in lis lectures, it feems, taught his fcholars, that they ought not to ferve God as flaves do their matlers, from the hopes of a reward, but merely out of filial love for his own fake; from which Saduc and Baithus inferred that there were no rewards at all after this life. They therefore feparated from their mafter, and taught that there was no refurrection nor fulture flate. This new doctrine quickly (prcad, and gave rife to the fect of Sadducees, which in many refpects tofembled the Epicureans.

Dr Prideaux thinks, that the Sadlucets were at firft no more than what the Caraites are now ; that is, they would not receive the traditions of the elders, but ftuck to the written word only; and the Pharilees being great promaters of thofe traditions, hence thefe two fects became directly oppofite to each other. See Prideanc's Comn. part ii. book 2. and 3.; and fce alfo Pharisels and Caraites.

Afterwards the Salducees imbihed other doctrines, which rendered them a fect truly impions; for they denied the refurrection of the dead, and the cxiftence o: angels, and of the firits or fouls of men departed

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Endurces (Nat. xxii. 23. Acts xxiii. 8.). They held, that there is no lpiritual being but God only ; tbat as to man, this world is his all. They did not deny but that we had reafosalle fuuls: but they m: inained the: ful was nortal; and, by a neceif.ry confqnence, they denied the resards and punithmems of another lite. They pretended aifo, that what is faid of the evirience of angels, and of a future refurrection, are nething but illufi ms. St Epiphanius, and after him St Aultin, have advanced, that the Sudducees denied the Holy Gholt. But neither Tofephus nor the evangelifts accule them of any error like this. It has been allo imputed to thern, that they thought God corporeal, and that they reccived none of the prophecies.

It is pretty dificult to apprehend how they could desyy the being of angels, and yet receive the books of Mofes, where fuch frequemt mention is made of angels and of their appearances. Groius and M. Le Clerc obferve, $t$ lat it is very likely they looked upon angels, not as particnlar beings, fubfilting of themfelves, but as powers, emanation:, or qualitics, infeparable from the Deity, as the iunbeams are infeparabie from the fon. Or perhaps they held angels not to be fpiritnal but mortal ; juf as they thought that fubllance to be which animates us and thinks in us. The ancients do not tell as how they folved this difficulty, that might be urged zgainft them from fo many paffages of the Pentaieuch, where mention is made of angels.

As the Sadducees ackn wledged neither punifhments nor recompenfes in another life, fo they were inexorable in their chattifing of the wicked. They obferved the law themfelves, and caufed it to be obferved by others, with the utnoft rigour. They admitted of none of the traditions, explications, or modifications, of the Pharifees; they kept only to the text of the law; and maintained, that only what was written was to be obferved.

The Sadducees are accufed of rejecling all the books of Scripture except thofe of Mofes; and to fupport this opinion, it is obferved, that our Saviour makes ufe of no Scriptuse againf them, but paffages taken out of the Pentateuch. Bat Scaliger produces good proofs to vindicate them from this reproach. He obferves, that they did not appear in Ifrael till after the number of the holy books was fixed; and that if they had been to choofe out of the canonical Scriptures, the Pentateuch was lefs favourable to them than any olher book, fince it often makes mention of angels and their apparition. Befides, the Sadducees were prefent in the temple and at other zeligious affermblies, where the books of the prophets were read indifferently as well as thofe of Mofes. They were in the chief employments of the nation, many of them were even priefts. Would the Jews have fuffered in thefe em, loyment rerfors that rejected the greateft part of their Sctiptures ${ }^{2}$. Ifen lle ben 1 fratl fays exprefs. ly, that indeed in y did not reject the prophets, bnt that they explai ed them in a fenfe very different from that of the other Jews.

Jofephus a ${ }^{\text {cures }}$ us, that they denied deftiny or fate; alleging that thefe were only founds wid of fenfe, and that all the good or evil that bappens to us is in confeguence of the good or evil five we have taken, by the free choice of our will. They faid alfo, that God was far removed frem doing or knowing evil, and that man zias the abfolute mafler of his own aldiont. This was
roundly to deny a providence; and upon this footing I Siddarees, know not, fays F. Calmet, what could be the religion of the Saduccees, or what in fluence ther: could afernbe to G.d in thin so are below. However, it is certain they we e rot orly tolerated among the Jews, but that they were admitted to tee high-prieithood idelf. John Hircal:us, high priet of that nation, Sepurated himielf i. a figmal maner from the leet of the Pharices, and went over to that of Sadoc. It is faid alfio, he gave Atrict comanand to all the Jews, on pain of death, to receive the maxims of this fect. Arifobulus and Alex. ander Jannæus, fon of Hircarus, continued to favour the Saccucees; and Maimonides aflures us, that under the reign of Alexandcr Jaunæus, they had in poff-fion all the offices of the Sanhedrim, and that there only remained of the pariy of the Pharifees, Simen the fon of Secra. Caia phas, who condemned Jetus Chrill to death, was a Saddicce (Acte, v. 17. iv. s.; aैs alfo Ananus the younger, who put to death St James the brother of onr Lord. At this day, the Jews hold as heretics that finall number of Sadducees that are to be found among them. See upon this matter Serrar. Trilacref. Menaffe ben-I/rael, de Refurredione nortuorum; Bajnage's H, 'ury of the Jews, \& ©c.; and Calnet's Differtation upon the Sects of the Jews before the Commentary of St Mark.

The fect of the Sadducees was much reduced by the deftruction of Jerufalem, and by the ditperfion of the Jews; but it revived afterwards. At the beginning of the third century it was fo formidable in Egypt, that Ammonim, Origen's mafter, when he faw tiem propagate their opinions in that country, thought himfelf obliged to write againft them, or rather againtt the Jews, who tolerated the Sadducees, though they denied the fundamental points of their religion. The emperor Jultinian mentions the Sadducees in one of his wovels, banifhes thems out of all places of his dominions, and condemins them to the fevereft punifhmerts, as feuple that maintained atheiflical and impious tenets, denying the refurrection and the latt judgement. Anrus, or Ananus, a difciple of Juda, lon of Nachman, a famous rabbin of the 8th centary, declared himfelf, as it is faid, in favour of the Saddncees, and flrenuoufly protected therm againit their adverfaries. 'I hey had alfo a. celebrated defender in the 12 th centary, in the perfon of Alpharag, a Spanifh ralbin. This doctor wrote againt the Pharifes, the declared enemies of the Sadducees; and maintained by his public writings, that the purity of Judaifm was only to be found amorg the Sadducees; that the traditions avowed by the Pharifees were ufelefs; and that the ceremonies, which they had mu'tiplied withnut end, were an unfinpportable yoke. The rabbi Abraham ben David 1 talleri replied to Alpharag, and fupported the feet of the Pharifees by two great arguments, that of their univerfality and that of their antiquity. He proved their antiquity by a continued fucceffion from Adam down of the year 1167 ; and their univesfality, becaufe the Pharifees are fpread all the world over, and are found in all the finagogues. There are fill Sadducees in Africa and in feveral other places. They deny the immortality of the foul, and the refurrection of the body; but they are rarely found, at lenf there are but few who declare thenleives for thefe opinions.

SADLER. John, was defcended from an ancient family in Shoppure ; born in 1.615 ; and educat $d$ at

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Sa ${ }^{\text {Ther }}$ Cambridge, where he became eminent for his preat knowledge in the oriental languages. He removed to Lincoln's-Inn, where he made no fmall progrels in the Itudy of the lan ; and in 1644 was admitted one of the mafters in chancery, as alfo one of the two malters of requefts. In 1649 he was chofen town-clerk of London, and the fame year publithed his Rights of the Kingdom. He was greatly efteemed by Oliver Cromwell, by whofe fpecial warrant he was continued a maker in chancery, when their number was reduced to fix. By his interelt it was that the Jews obtained the privilege of building for themfelves a lynagogue in London. In 1658 he was made member of parliament for Yarmouth; and next year was appointed firit commiffioner under the great feal with Mr Taylor, Mr Whitelocke, and others, for the probate of wills. In 1660 he publifted his Olbia. Soon after the reftoration, he loft all his employments. In the fire of London in 1666, he was a great fufferer; which obliged him to retire to his feat of Warmwell in Dorfetfifire, where he lived in a private manner till 1674 , when he died.

SADOC, a famous Jewifl rabbi, and founder of the fect of the Saduccees.

SADOLET, JAMES, a polite and learned cardinal of the Romifh courch, born at Modena in 1477. Leo X. made him and Peter Bembus his fecretaries, an office for which they were both well qualified; and Sidolet was foon after made bifhop of Carpentras, near Avignon : he was made a cardinal in ${ }^{1} 536$ by Paul III. and employed in feveral negociations and embaflies. He died in 1547, not without the futricion of poifon, for correfoonding too familiarly with the Pruteftants, and fur teftifying too much regard for fome of their doctors. His works, which are all in Latin, were collected in 1697 at Mentz, in one volume 8 vo . All his contempo. raries fpoke of him in the higheft terms.

SAFE-GUARD, a protection formerly granted to a franger who feared violence from fonse of the king's fubjects for feeking his right by courfe of law.

SIFE-C rduct is a fecurity given by a prince under the great feal, to a ftranger for his fofe-coming into and paffing out of the realm; the form whereof is in Reg. Orig. 25. There are letters of fafe conduct which mult be enrolled in chancery; and the perfons to whom granted muft have them ready to flow ; and touching which there are feveral fatutes. See Prerogative.

SAFFRON, in the Moteria Medica, is formed uf the fligmata of the crocus officinalis, dried on a kiln, and preffed together into cakes. See Crocus, Botany Index. There are tro kinds of faffron, the Englifh and Soanifh ; of which the latter is by far the moll efteemcd. Saffron is principally cultivated in Cam', i, gelhire, in a circle of about ten miles diameter. The greateft part of this tra? is an open level country, with iew inclofures; a. 1 the cultom th re is, as in mnft o her placer, to cron two years, and lct the land b-fillow $\mathrm{t}^{\top} \mathrm{e}$ third. Saffi=n i-ten-raly phet uron fallow ground, and, all oth or thit, sleing alite, they prefer tlat which has horne bariey tie year tefore.
"Thie f: ffron gith d is fell.m above three acres, or lefothar one; an lin choofe, the princi-al ling g they $1 . \operatorname{r}$ ard to ic that they be wed cipuld, the foil not pror, to a re-y fiff clav, b it a temptrate dty math, zucir as cumaicnify lies woon chelk, and is of on hazel
colour; though, if every thing elfe anfwere, the colour s.en. of the mould is pretty minch neglected.

The ground being $m$ de choice of, atout Lady. day or the beginning of A pril, it muit be carefully , tiughed, the firrows beit og draun much clofer togelir $r$, and dceper if the loil will allow it, than is done tor any kind of corn; and acecraingly the charge is greater.

About five weehs atter, during any time is the month of May, they lay Letrsen 20 and 30 loads of dung upon each acre, and having ipread it with great care, they plough it in as befure. The thorteft rotten duang is the belt: and the farmers, who have the conveniency of making it, fpare no pains to m. .ke it good, bei g fure of a proportionable price for it. About midtummer they plough a tbird time, and between every 16 ₹eet and a halt they leave a broad furrow or trench, which ferves both as a boundary to the lever.t parcels, and fo: throwing the weeds iito at the proper feafon. The time of planting is commonly in the month of July. The only inftrument ufd at this time is a fmall narrow fpade, commonly called a fpit floved. The method is this: One man with his fh vel raifes about three or four inches of earth, and throws it befure him about fix or more inches. Two perfuns, generally women, fllow with roots, which they place in the tarthelt edge of the trench made by the digger, at about three inches from each other. As foon as the digger has gone once the breadth of the ridge, he begins arrain at the other fide; and, digging as before, covers the roots laft fet, which makes room for another row of routs at the fame difance from the firl that they are from one another. The only dexterity neceffary in digging is, to leave fonse part of the firft fratum of earth untouched, to lie under the roots; and, in fetting, to place the soots directly upon their bottom. The quaptity of roots planted on ath acre is generally about 16 quarters, or 128 buthels. From the time of planting till the beginniv. 5 of September, or fometimes before, there is no more labour required; but at that time they begin to veretate, and are ready to thow themfelves above ground, which may be known by digging up a few of the roots., The ground is then to be pared with a tharp hoe, and the weeds raked into the furrows, otherwile they would hinder the growth of thé faffion. In fome time afiur, the flowers appear.

They are gathered before they are full blown, as wellas atier, and the pr-per time for it is early in the moming. The orwners of the fafiron felds get together a fufficient number of hands, who pull off the whoie flowers, and thiow tiem by handfuls into a bafket, and io outi'use til about II o'clock. Having then carried home the flow rs, they immediate'y fall to picking out the ffigmata or chives, and tocetter with them a pretty large proportion of the flylus ittelf, or flring to wich they are attached: the reft of the f.ewer they throw a sey as ufiefs. Next morning they return to the f.e'd, without regarding whether the weather be wet or dry : and foon daty, even on Sundays, till the whole crop is gath red. - Tls next lahour is to dry the chires on the kin. The kiln is built upon a thick playk, H t it mav be maved frum place to pl ce. It is fupported ly $f$ ur thort $k$ : : the cutilde cocile of cighe picces of $x$ od of $t=\mathrm{c}$ incles thick, is $f=7$ of $a$ puadrangular frame, al cout 12 inches log re at d! 1 ttota e:2 UciuCde, atd -2 on the $L_{1}$ per fart In h h
S.ffron laft is likewife the perpendicular height of it. On the forefide is left a hole of about eight inches liquare, and four inches above the plark, through which the fire is put in ; over all the reft laths are laid pretty thick, clofe to one another, and mailed to the frame already mentioned. They are then plaftered over on both fides, as are allo the planks at botom, very thick, to ferve for a hearth. Over the mouth is laid a haircloth, fixed to the edges of the kiln, and likewife to two rollers or moveable pieces of wood, which are turned by wedges or fcrews, in order to Itretch the cloth. Inftead of the bair.cloth, fome people ufe a net-work of iron-wire, by which the faffron is foon dried, and with lefs fuel; but the difficulty of preferving i from burning makes the hair-cloth preferred by the beit judges. The kiln is placed in a light part of the houfe; and they begin with putting five or fix fheets of white paper on the hair-cloth, and upon thefe they lay out the wet faffron two or three inches thick. It is then covered with fome other fheets of paper, and over thefe they lay a coarfe blanket five or fix times doubled, or inflead of this, a canvas pillows filled with ftraw; and after the fire has been lighted for fome time, the whole is covered with a board having a confiderable weight upon it. At firft they apply a pretty flrong heat, to make the chives fweal as they call it ; and at this time a great deal of care is neceffary to prevent burning. When it has been thus dried about an hour, they turn the cakes of fafiton upfrde down, puting on the coverings and weight as before. If no finifter accident happens during thefe firft two hours, the danger is thought to be over; and nothing more is requisite than to keep up a very gentle fire for 24 hours, turning the cake every half hour. That fuel is beft which yields the leat fmoke; and for this reafon charcoal is preferable to all ethers.

The quantity of faffron produced at a crop is uncertain. Sometimes five or fix pounds of wet chives are got from one rood, fometimes not above one or two; and fometimes not fo much as is fufficient to defray the expence of gathering and drying. But it is always obferved, that about five pounds of wet faffron go to make one pound of dry for the firft three weeks of the crop, and fix pounds during the laft week. When the heads are planted very thick, two pounds of dry Gafiron may st a medium be allowed to an acre for the firft crop, and 24 pounds for the two remaining ones, the third being confiderably larger than the fecond.

To obtain the fecond and third crops, the labour of hoeing, gathering, picking, \&cc. already mentioned, muft be revrated; and about midfummer, after the third crop is gathered, the roots muft all be taken up and tranfplanted. For taking up the roots, fometimes the plough is made ufe of, and fometimes a forked hoe; and then the ground is harrowed once or twice over. During all the time of ploughing, harrowing, \&\&c. 15 or more people will find work enough to follow and gather the heads as they are turned up. The roots are next to be carried to the houfe in facks, where they are cleaned and rafed. This labour confifts in cleaning the roots thoroughly from earth, decayed old pieces, involucra, or excrefrences; after which they become fit to be planted in new ground immediatcly, or they may be kept for fome time, without danger of fpoiling. The quantity of roots taken up in proportion to thofe plant-
ed is uncertain; but, at a medium, 24 curters of clean roots, fit to be planted, may be had irom each acre. There lometimes happens a remarka-le change in the roots of laffron and fome other plants. As focn as they bes in to thoot upwards, there are ommoniy .wo or three large tap-roots fent forth from thalie of : is old onc, which will run two or three inches dee! into thie ground. At the place where the'e bulk's fifit o me out from, the old one will be formed on a mace, though not always, and the tap-root then deciys it he bulb increales in bigiels, and at laft falls wite off; wometh commonly happens in April. But mary times thef tap ronts never produce airv (W. Ths, and remain barten for ever after All fuch rows iere ore whon d be theon. away in the making a new plentaton. Ibis degenaracy in the rocts is a dill te for vo ch $10 \mathrm{ur}^{-}$is as yot known.

When faffron is ofiered to fale, that kind ought to be chofen which has the broadelt blades; this being the mark by which Englift faffron is diftinguifhed from the foreign. Hought to be of an orange or fiery-red colour, and to yield a dark yellors tinctusa. It fhould be chofen frefh, not above a year old, in clole cakes, neither dry nor yet very moit, tough and firm in tearing, of the fame colour within as without, and of a ftrong, acrid, diffufive fmell.

This drug has been reckoned a very elegant and ufeful aromatic. Befides the virtues it has in common with other fubftances of that clafs, it has been accounted one of the highelt cordials, and is faid to exhilarate the fivists to fuch a degree as, when taken in large dofes, to occafion immoderate mirth, involuntary laughter, and the ill effe:ts which follow from the abufe of fpiriturus liguors. This medicine is particularly ferviceable in hyfteric depreflions proceeding from a cold caufe or obifruction of the uterine fecretions, where other aromatics, even thofe of the more generous kind, have little effect. Saffon imparts the whole of its virtue and celour to rectified fpirit, proof-fpirit, wine, vinegar, end vater. A tincture drawn with vinegar lofes greatly of its colour in keeping: the watery and vinous tinctures are apt to grow four, and then lofe their colour alfo : that made in pure firit keeps in perfection for many years.

Mendor-Sifftign. See Colchicum, Botany Index.
SAGAN, in fcripture hiftory, the fuffragan or deputy of the Jewifh high-prieft. According to fome writers, he was only to officiate for him when he was rendered incapable of attending the fervice through ficknefs or legal uncleannefs on the day of expiation ; or, according to others, he was to affit the high-prieft in the care of the affairs of the temple and the fervice of the priefts.

SAGAPENUN, in Pharmacy, \&c. a gum refin which is made up in two forms; the finer and purer is in loofe granules or fingle drops; the coarfer kind is in maffes compofed of thele drops of various fizes, cemented together by a matter of the fame kind; and is brought from Perfia and the Eaft Indies. See Materia Medica Index.

SAGE. See Salvia, Botany Indée.
Sage, Alain Rene, an ingenious French romancewriter, was born at Ruys in Brittany in the year $166 \%$. He had a fine flow of imagination, was a complete mafter of the French and Spanifh languages, and wrote feveral admised romances in imitation of the Spanifh au-

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thors. Thefe were, The Bachelor of Salamance, 2 vols. 121 no ; New Adventures of Don Quixote, 2 vols 12 mo ; The Devil on Two Sticks, 2 vols 12 mo ; and Gil Blas, 4 vols 12 mo . He produced alfo fome comedire, and other humorous pieces. This ingenious author died in year ${ }^{1747}$, in the vicinity of Paris, where he fupported himielf by writing.

Sage, the Reverend John, fo jufly admired by all who knew him for his clafical learning and realoning powers, was born, in 1652 , in the parifh of Creich and county of Fife, North Britain, where his anceflors had lived for feven generations with great refpect though with little property. His father was a captain in Lord Duffus's regiment, and fought for his king and country when Monk flormed Dundee on the 3oth of Augult 1651.

The iffue of the civil wars, and the loyalty of Captain Sage, left him nothing to beflow upon his fon but a liberal education and his own principles of piety and virtue. In thofe days the Latin language was taught in the parochial fchools of Scotland with great ability and at a trifling expcnce; and after young Sage had acquired a competent knowledge of that language at one of thofe uieful feminaries, his father, without receiving from an ungrateful court any recompenfe for what he had loft in the caufe of royalty, was fill able to fend him to the univerfity of St Andrews, where having remained in college the ufual number of terms or feffions, and performed the exercifes required by the ftatutes, he was admitted to the degree of mafter of arts, the higheft honour which it appears he cver received from any univerfity.

During his refidence in St Andrew's he fudied the Greek and Roman authors with great diligence, and was likewife inftructed in logic, metaphyfics, and fuch other branches of philofophy as then obtained in the fehools, which, theugh we affect to fmile at them in this enlightened age, he always fpoke of as highly ufeful to him who would underftand the poets, hiflorians, and orators of ancient Greece, and even the fathers of the Chriftian church. In this opinion every man will agree with him who is at all acquainted with the ancient metaphyfics, and has read the writings of Clemens Alexandrinus, Origen, Tertullian, Chryfoftome, and other fathers of great name; for each of thofe writers adopted the principles of fome one or other of the philofophical fects, reafoned from their notions, and often made ufe of their terms and phrafes.

When Mr Sage had taken his mafter's degree, the narrownefs of his fortune compelled him to accept of the firf literary employment which was offered to him; and that happened to be nothing better than the office of fchoolmafter in the parih of Bingry in Fifefhire, whence he was foon removed to Tippermuir in the county of Perth. In thefe humble fations, though he wanted many of the neceflaries and almoft all the comforts of life, he profecuted his fludies with great fuccefs; but in doing fo, he unhappily imbibed the feeds of feveral difcafes which aftlicted him through life, and rotwithflanding the native vigour of his ennflitution impaired his health and fhortened liis days. Fron the miferable drudgery of a parifh-fchonlmatt r , he was relieved by Mr Drummond of Cultmalundie, who inrited him to fuperintend the education of his fons, whom he accompanied firlt to the public fchool at V'ol. XVIII, Pait II.

Perth, and afterwards to the univerfity of St Andreiv's. Tlis was ftill an employment by no means adiquate to his merit, but it was not wholly without advantages. At Perth he gained the friendhip and efteem of Dr Rofe, afterwards lord bifhop of Edinburgh, and at St Andrew's of every man capable of properly ellimating genius and learning.

The education ot his pupils was completed in $\mathbf{1 6 8 4}$, when he was left with no determinate objećt of purfuit. In this momeat of indecifion, his friend Dr Rofe, who had been promoted from the parfonage of Perth to the profeflorflip of divinity in the univerfiy which he was learing, recommended him fo effectually to his uncle, then archbifhop of Glafgow, that he was by that prelate admitted into orders and prefented to one of the churches in the city. He was then about 34 years of age ; had fludied the Scriptures with great affiduity; was no ftranger to ecclefiallical hiftory, or the apologies and other writings of the ancient fathers; was thorough mafter of fchool-divinity; had examined with great accuracy the modern controverfies, efpecially thofe between the Romifh and reformed churches, and between the Calvinifts and Remonftrants; and it was perhaps to his honour tbat he did not fully approve of all the articles of faith fubfcribed by any one of thefe contending fects of Chriftians.

A man fo far advanced in life, and fo thoroughly accoomplified as a fcholar, would naturally be looked up to by the greater part of the clergy as foon as he became one of their body. This was in fact the cafe : Mr Sage was, immediately on his admiffion into orders, appointed clerk to the fynod or preflytery of Glafgow ; an office of great truft and refpectability, to which we know nothing fimilar in the church of England.

During the eftablifhment of epifcopacy in Scotland, from the reftoration of Charles II. till the year 1690 , the authority of the bihhops, though they poffeffed the fole power of ordination, was very limited in the government of the church. They did every thing with the confent of the prefbyters over whom they prefided. Diocefan fynods werc held at flated times for purpofes of the fame kind with thofe which employ the meetings of prefbyteries at prefent (fee Prfseyterians), and the only prerogative which the biflop feems to have enjoyed was to be permanent prefident, with a necative voice over the deliberations of the affembly. Ti.e acts of each fynod, and fometimes the charge delivcsed by the bilhop at the opening of it, were regiflered in a book kept by the clerk, who was always one of the moft eminent of the diocefan clergy.

Mr Sage continued in this office, difcharging in Glafgow all the duties of a clersyman, in fuch a manner as endeared hin to his flock, and gain-d him the efteem even of thofe who were diffenters from the ellablifhment. Many of lis brethren were trimmers in eccleGalfical as well as in civil politics. They had been republicans and prefbyterians in the days of the covenant; and, with that ferocious zeal wlich too often ct sracterizes interefled converts, had concurred in the feverities which, during the reign of Charles II. were esercied againft the ty whom they I d formaken at his refortio m . When that arty age raifed is $\mathrm{h}-\mathrm{d}$ dtring the infatuated reign of James, and every thing indicated an approaching change of the eftablithment, 3 L
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 thofe whofe zeal for the church had fo lately incited thems to perfecute the diffenters, fuddenly became all gentlenels and condefcenfion, and advanced towards the pretbvterians as to their old friends.Tise conduct of Mir Sage was the reverfe of this. Hc was an epilcopalian and a royalite fiom convicton : and in all his difcourfes public and private he laboured to intiil into the minds of others the principles which to himfelf appeared to have their foundation in truth. To perfecution he was at all times an enemy, whilit he never tamely betrayed through fear what he thought it his duty to maintain. The confequence was, that in the end of the year 1683 he was treated by the rabble, which in the weftern counties of Scotland rofe agaim the eftablifhed cluurch, with greater lenity than his more complying brethrea. Whilft they, without the fmalleft appzehenfion of their danger, were torn from their families by a lawlefs force, and many of them perfecuted in the crueleft manner, he was privately warned to withdraw from Glafgow, and never more to return to that city. So much was confilitency of conduct and a fleady adherence to principle refpected by thofe who feemed to refpeet nothing ell.e.

Mr Sage retired to the metropolis, and carried with him the fynodical book, which was afterwards demanded by the prelbytery of Glafgow, but not recovered, till about twenty years ago, that, on the death of a nephew of Dr Rofe the laft eftablifhed bilhop of Edinburgh, it was found in his poffefion, and reflored to the preßbytery to which it belonged. Mr Sage had detained it and given it to his diocefan friend, from the fond hope that epifcopacy would foon be re-eftablihted in Scotland; and it was doubtlefs with a view to cont:ibute what he conld to the realifing of that lope, that, immediately on his being obliged to leave Glafgow, he commenced a keen polemical writer. At Edinburgh be preached a while, till refufing to take the oaths of allegiance when required by the government, he was obliged to retire. In this extremity, he found protection in the houfe of Sir William Brace, the fueriff of Kinrofs, who approved his principlcs and admired his virtue. Returning to Elinburgh, in $\mathbf{5 9 5}$, he was obferved, and obliged to abfcond. Yet he returned in 1696 , when his friend Sir William Bruce was imprifoned as a fufpected perfon. He was foon forced to feek for refuge in the hills of Angus, under the name of Jackfon.

After a while Mr Sage found a fafe retreat with the countefs of Callendar, who employed him to inftruct her family as chaplain, and her fons as tutor. Thefe occupations did not whally engage his active mind: for he employed his pen in defending his order, or in expofing his oppreffors. When the countefs of Callendar had no longer fons to inftruet, Sage accepted the invitation of Sir John Steuait of Garntully, who wanted the help of a chaplain, and the converfation of a fcholar. With Sir John he continued till the decency of his manners, and the exter fivenefs of his learning, recommended him to a higber fation. And, on the 25 th of Janualy 1705, lie was confecrated a bihhop by Paterfon the archbithop of Gl, ffow, Rofe the bithop of Edinburgh, and Douglas the bihop of Dumbiain. But this promotion did nut prevent ficknefs from falling on him in November 1706. After lingering for many months in Scotland, he tried the effet of the waters of Bath in 1789 , without fuc-
cefs. At Bath and at London he remnined a twelvemonth, recognited by thie great and careffed by the learned. Set though he was invited to flay, he returned in 1710 to his native country, which he defired to fee, and where he withed to die. And though his body was debilitat. d, he engaged, with unoiminithed vigour of mind, in the publication of the works of Drummond of Hawthornden, to which the celebrated Ruddiman lent his aid. Bifhop Sage died at Edinburgh on the $7^{\text {th }}$ of June ${ }^{1711}$, lamented by his friends for his virtues, and feared by his adverfaries for his talents.

His works are, IIt, Two Letters concerning the Perfecution of the Epifcopal Clergy in Scotland, which with other two by dififerent authors were printed in one volume at London is 1689. 2dly, An Account of the late Eftablifhment of Prcilyterian Government by the Parliament of Scotland, in 1595 , Loudon, 1693. 3 dly, The Fundamental Charter of Prefbytery, London, 1695. 4l:ly, The Principles of the Cyprianick Age with regard to Epicopal Power and Juridciation, London, $1695.55^{\text {thly }}$, A Vindication of the Principles of the Cyprianick Age, London, 1701. 6thly, Some Remarks on the Leller from a Gentleman in the City, to a miniter in the Cou:tıy, on Mr David Willi:mfon's Sermon before the General Afembly, Edinburgh, 17:3. 7thly, A Brief Ewamation of fome Things in Mr Meldrum's Seimon, preached on the 16th of May 1703; againft a Toleration to thele of the Efifcopal Periuation, Edinburgh, ${ }^{1} 703$. 8thly, The Reafonablenefs of a Toleration of thofe of the Epircoral Perfuafion inquired into purely on Church Principles. Edinburgh, 1704. gthly, The Lite of Gawin Douglas, in 1710 . rothly, An introduction to Diemmoud's Hittory of the Five James's, Edinburgh, 1711. Of the principles maintained in thefe publications, different readers will think very differently; and it is probable that the acrimony difflayed in feme of them will be generally condemned in the prefent day; whilit the learning and acutenefo of their author will be univerfally acknowledged and admired by all who can dillingu:ifo merit in a friend or an adverfary.

SAGENE, or Sajene, a Ruflian long meafure, 500 of which make a vert: the fagene is equal to feven Englifh feet.

SAGINA, a genus of plants belonging to the tetrandria clafs; and in the natural method ianking under the 22d order, Caryophylliei. See Botany Index.
SAGITTA, in Afironomy, the Arrow, a confellation of the northern hemifphere near the Eagle, and one of the $4^{\S}$ old atherifms. According to the fabulous ideas of the Greeks, this conliellation owes its onigin to one of the arrows of Hercules, with which he killed the eagle or vulture that gnawed the liver of Prometheus. In the catalogucs of Ptoiemy, Tycho, and Heveliur, the flars of this conifellation are only five in number, while Flamflead made them amount to 18.

Sagitta, in Geometry, a term ufed Ly fome writers for the abici's of a curve.

Sagitta, in Trigorometry, the fame as the verfed fine of an arch, beins fo denominated becaufe it is like a dast or arrors, flanding on the chord of the arch.
SAGITTALIA, Arrow-head, a genus of plants belonging to the munecia cla's; and in the natural method ranking urder the fifth order, Tripclatsidece. See Botany Index.-A bulb which is fommed at the lower

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Sapitarius part of the root of a fpecies of this plant, conftitutes a Sathira. confiderable part of the food of the Lhinele ; and upon that account they cultivate it.

SAGITTARIUS, in Afronomy, the name of one of the 12 figns of the zodiac.

SAGO, a nutritive fubflance brought from the Eaft Indies, of confiderable wfe in diet as a retlorative. It is produced from a fpecies of palm-tree (CTCAS circinalis, Lin.) growing fpontancoufly in the Eaft Iadies without any culture. The progrels of its vegetation in the ear:y ftages is very flow. At firf it is a mere thrub, thick fet with thorns, which make it ditficult to come near it; but as foon as its frem is once formed, it rifes in a fhort time to the height of 30 feet, is about fix feet in circunference, and imperceptibly lofes its thorns. . Its ligneous bark is about an inch in thickneff, and covers a mulitude of long fibres; which, being interwaven one with another, envelope a mals of a gummy hind of meal. As foon as this tree is ripe, a whitih duft, which tranfpires through the pores of the leaves, and adheres to their extremi(ies, proclaims its maturity. The Malays then cut them down near the root, divide them into feveral fections, which they fplit into quarters: they then fcoop out the mafs of mealy fubllance, which is enveloped by and adheres to the fibres; they dilute it in pure water, and then pafs it through a ftraining bag of fine cloth, in order to feparatc it from the fibres. When this pafte bas loft part of its moifture by evaporation, the Malays throw it into a kind of earthen veffels, of different chapes, where they allow it to dry and harden. This pafte is a wholelome nourihing food, and may be preferved for many years. The Indians eat it diluted with water, and fometimes baked or boiled. Through a principle of humanity, they referve the fineft part of this meal for the aged and infirm. A jelly is fometimes made of it, which is white and of a delicious flavour.

SAGUMI, in Roman antiquity, a military babit, open from top to bottom, and ufually faftened on the right fhoulder with a buckle or cla.p. It was not difterent im fhape from the chlamys of the Greeks and the paludamentum of the generals. The only difference betncen them n'as, that the paludamentum was made of a richer fluff, was generally of a purple coluur, and both longer and fuller than the facum.

SAGUNIUM, an ancient town of Spain, now called Morvedro, where there are fill the ruins of a Roman amphitheatre to be feen. The new town is feated on a river called Mírvedro, is miles to the not th of Valencia, in E. Long. ©. 10. N. Lat. 39. 38. It was taken by Lord Peterborough in 1706 .

SAHARA, or ZAARA, the Great I)efort, is a ralt extent of fard in the interior parts of $A$ rica, which, with the leffer deferts of Bornsi, Bilma, Barca, Sort, \&ic. is equal to about one half of Europe. If the fand be confidered as the ocean, the Sahara has its culfs and bays, as alfo its iffands, or Oases, fertile in groves and paflures, and in many inftances contaioing a great population, fubject io order and regular government.

The great body, or weftern divifion of this ocean, comprifed between Fezzan and the Atlantic, is no lels than 50 earavan journeys acrofs, from north to fouth; or from $7: 0$ to 8 co G . miles; and double that extent in length: without doubt the largeft defert in the world. This divifion contains but a fcanty fortion of jflands
(or oafes), anis thufe alfo of fmall extent : but the eatiern divilion has many, and fome of them very larze. Fezzan, Gadamis, I...boo, Ghanat, Ayadez, A:rgila, Besdoa, are among it the principal ones: befides whic, there are a vatt number of imall ones. In effect, this is the part of Africa alluded to by Strabo, when te fiys from Cneius Pi/s, that Litica may Le compared to 2 leopard's Akin.

From the be!t inquiries that Mr Park could make when a kind of captive among the Moors at Ludamar, the Weitern Defert, he fays, may be pronounced almont deffitute of inhabitaints ; cxcept where the fcanty vegetation, which appears in certain fyots, affords pallurage for the flocks of a few miferable Arabs, who wander from one well to another. In other places, where the fupply of water and patlurage is more abundant, fmall parties of the Moors have taken up their refidence. Here they live, in independent poverty, fecure from the tyrannical government of Barbary. But the greater part of the defert, being totally deftitute of waier, is feldom vifited by any human being; unlefs where the trading caravans trace out their toilfome and dangerous route acrofs it. In fome parts of this extenfive walle, the ground is covered with low ilunted fhrubs, which ferve as land-marks for the caravans, and furnifh the camels with a fcanty forage. In other parts, the dificonfolate wanderer, wherever he turns, fees nothing around him but a valt interminable expanfe of fand and $1 k y$; a gloomy and barren void, where the eye finds no particular object to reft upon, and the mind is filted with painful apprebenfons of perithing with thirft. Surrounded by this dreary folitude, the traveller fees the dead bodies of birds, that the violence of the wind has brought from happier regions; and, as he ruminates on the fearful length of his remaining paffage, liftens with horror to the voice of the driving tlak; the only found that interrupts the awful repofe of the defert.

The wild animals which inhabit thefe melancholy regions, are the antelope and the oftrich; their fwiftnefs of foot enabling them to reach the diltant wateringplaces. On the flirts of the defert, where the water is more plentitul, are found lions, panthers, elephants, and wild boars.

The only domeftic animal that can endure the fatigue of croffing the defert is the camel; and it is therefore the only beaft of burden employed by the trading carzvans which traverfe, in different directions, from Barbary to Nigritia. The flefh of this ufeful and docile creature, theugh to our authos's tafte it was dry and unfavoury, is preferred by the Moors to all others. The milk of the female, he fays, is in univerfal efteem, and is indeed pleafant and nutritive.

That the defert has a dip towards the eaft, as well as the fouth, feems to be proved by the courfe of the Niger. Morcover, the higheff points of North Africa, that is to fay, the mountains of Maudinga and Atlas, are fituated very far to the weft. The delert, for the mott part, abounds with falt. But we hear of falt mines only in the part contiguous to Nigritia, from whence falt is drawn for the ufe of thofe countries, as well as of the Moorifh flates adjoining; there being no falt in the Negro countries fouth of the Niger. There are falt lakes alfo in the ealtern part of the defert.

SAHLITE, a fecies of mineral, fec Minfralocy Irain.
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SAI, a large town near the banks of the Niger, which, according to Mr Park, is completely furrounded by two very deep trenches, at about two hundred yards di iant from the walls. On the top of the trenches are a num jer of iquare towers: and the whole has the appearance of a regular fortification. Inquiring into the origin of this extraordinary entrenchment, our author learned from two of the towns people the following particulars; which, if true, furnihh a mournful picture of the enormities of African wars:

Abunt fifieen years before our traveller vifited Sai, when the king of Bambarra defolated Maniana, the Dooty of Sai had two fons flain in battle, fighting in the king's caufe. He had a third fon living; and when the king demanded a further reinforcement of men, and this youth among the reft, the Dooty refufed to fend him. This conduct fo enraged the king, that when he returned from Maniana, about the beginning of the rainy feafon, and found the Dooty protected by the inhabitants, he fat down before Sai with his army, and furrounded the town with the trenches which had attracted our author's notice. After a fiege of two months, the towns people became involved in all the horrors of famine ; and whilit the king's army were feafting in their trenches, they faw with pleafure the miferable iuhabitants of Sai devour the leaves and bark of the Bentang tree that ftood in the middle of the town. Finding, however, that the befieged would fooner perifh than furrender, the king had recourfe to treachery. He promififed, that if they would open the gates, no perfon thould be put to death, nor fuffer any injury, but the Dooty elone. The poor old man determined to facrifice himelf, for the fake of his fellowcitizens, and immediately walked over to the king's army, where he was put to death. His fon, in attempting to efcape, was caught and maffacred in the trenches; and the reft of the towns.people were carried away captives, and fold as flaves to the different Negro traders. Sai, according to Major Remel, is fituated in N. Lat. $14^{\circ}$. and in W. Long. $3^{n} \cdot 7$.

SAICK, or Shipue, a Turkilh veffcl, very common in the Levant for carrying merchandize.

SAIDE, the modern name of Sidon. See Sidon.
SAIL, in Navigation, an affemblage of feveral breacths of canvas fewed together by the lifts, and edged round with cord, faftened to the yards of a flip, to make it drive before the wind. See Ship.

The edges of the cloths, or pieces, of which a fail is compofed, are generally fewed together with a double feam; and the whole is ikirted round at the edges with a cord, called the balt.rope.

Although the form of fails is extremely different, they are all neverthelcfs triangular or quadiilateral figures; or, in other words, their furfaces are contuined either between three or four fides.

The former of thefe are fometimes fpread by a yard, as lateen-fails; and otherwife by a flay, as flay-dails; or by a maft, as fhoulder-of-mutton fails; in all which cafes the foremof loech or edge is attached to the faid yard, matt, or ftay, tl.roughout its wholc length. The Iatter, or thofe which are four-fided, are either extended by yards, as the principal fails of a hhip; or by yards and booms, as the fudding fails, drivers, ringtails, and all thofc fails which are fet occafionally ; or
by gaffs and booms, as the main-fails of floops and brigantines.

The principal fails of a flip (fig. I.) are the courfos Plate or lower lails $a$; the top ?ails $b$, which are next in order above the courfes; and the top-gallant fails $c$, which are expanded above the top-fails.

The coulfcs are the main-fail, fore fail, and mizen, main fay-ail, fore ftay-aail, and mizen flay-1ail: but more particularly the three firft. The main llay-fail is rarely ufed except in fmall veffels.

In all quadrangular fails the upper edge is called the head; the fides or fkirts are called leeches; and the bottom or lower edge is termed the foot. If the head is parallel to the foot, the two low corners are denominated clues, and the upper corners earings.

In all triangular fails, and in thofe four-fided fails wherein the head is not parallel to the foot, the foremoft corner at the foot is called the tack, and the after lower-corner the clue; the foremott perpendicular or floping edge is called the fore-leech, and the hindmoft the afier-leech.

The heads of all four-ficed fails, and the fore-leeches of lateen-fails, are attached to their refpective yard or gaff by a number of fmall cords called ro-bands; and the extremilies are tied to the yard-arms, or to the peek of the gaff, by earings.

The flay-fails are extended upon flays between the mafts, whereon they are drawn up or down occafionally, as a curtain flides upon its rod, and their lower parts are ftretched out by a tack and theet. The clues of a topfail are drawn out to the extremities of the lower yard, by two large ropes called the top-fail foeets; and the clues of the top-gallant fails are in like manner extended upon the top-fail yard-arms, as exhibited by fig. 2 .

The fludding-fails are fet beyond the leeches or fkirts of the main-fail and fote-fail, or of the top-fails or top-gallant fails of a flip. Their upper and lower edges are accordingly extended by poles run out beyond the extremities of the yards for this purpofe. Thofe fails, however, are only fet in favourable winds and moderate weather.

All fails derive their name from the maft, yard, or flay, upon which they are extended. Thus the principal fail extended upon the main-maft is called the mainfail, $d$; the next above, which ftands upon the maintop maft, is termed the main-top fail, $e$; and the higheft, which is fread acrofs the main-top-gallant matt, is named the main-top-gallant fail, $f$.

In the fame manner there is the fore fail, $g$; the fore-top fail, $h$; and the fore-top-gallant-fail, $i$; the mizen, $k$; the mizen-top fail, $l$; and mizen-top.gal-lant-fail, $m$. Thus alfo there is the main ftay-fail, o; main top-maft fay-fail, $p$; and main-top-gallant flayfail, $\eta$; with a middle flay-fail which flands between the two laft.
N. B. All thefe fay-fails are between the main and fore-matts.

The ftay-fails between the main-maft and mizen-maf are the mizen fay-fail, $r$; and the mizen top-maft fayfail, $s$; and fometimes a mizen top-gallant ftay-fail above the latter.

The ftay-fails between the foremaft and the bow. . frit are the fore flay-fail, $t$; the fore top-maft flay-fail


- \11.


SAILING.


SARCOPHAGUS
of Alexander the Great.


## S A I

Sail. $u$; and the jib, $x$. There is befides two fquare fails extended by yards under the bow-fprit, one of which is called the Jprii-fail, $y$; and the other the firit-foril top-fail, z.

The iludding-fails being extended unun the different yards of the main-malt and fore-matt, are likewile named according to their Itations, the lower, top-mafl, or tupgallant husiding fails.

Tine ropes by which the lower yards of a hiip are hoifted up to their proper height on the malts, are called the jears. In all other fails the ropes employed for this purpofe are called haliards.

The principal fails are then expanded by haliards, fleets, and bowlines; except the courfes, which are always ftretched out below by a tack and fheet. They are drawn up together, or truffed up, by bunt-lines, cluc-lines, $d \boldsymbol{d}$; leech-lines, $e e$; reef-tacklcs, $f f$; flabline, $g$; and filing-lines. As the bunt-lines and lcechlines pafs on the other fide of the fail, they are exprefled by the dotted lines in the figure.

The courfes, top-fails, and top-gallant fails, are wheeled about the maft, fo as to fuit the various directions of the wind, by braces. The higher ftudding-fails, and in general all the ftay-fails, are drawn down, fo as to be furled, or taken in, by down-hauls.

Some experienced fail-makers contend, that it would be of much advantage if many of the fails of flhips were made of equal magnitude; in which cafe, when necelfity required it, they could be interchangeably ufed. For example, as the mizen top-fail is notv made nearly as large as the main top-galiant fail, it would be eafy to make the yards, mafts, and fails, fo as mutually to fuit each other. The main and fore-top fails differ about two feet at head and foot, and from one to three feet in depth. Thefe likewife could be eafily made alike, and in fome cafes they are fo. The fame may be faid of the main and fore top-gallant fails, and of the mizen top-gallant fail, and main fore-royal. The main-fail and fore-fail might alfo, with refpect to their head, be made alike; but as the former has a gore at the leech, and a larger gore at the foot for clearing it of the gallows, boats, \&c. which the latter has not, there might be more difficulty in arranging them. The difficulty, however, appears not to be infurmountable. Thefe alterations, it is thought, would be extremely vefful in the event of lofing fails by ftrefs of weather. Fewer fails would be thus neceffary, lefs room would be required to llow them, and there would be lefs danger of confufion in taking them out. But perhaps the utility of thefe alterations will be more felt in the merchant-fervice than in the navy, which latter has always a large ftore of fpare fails, and fufficient room to flow them in order. Thus, too, fpare yards and mafts thight be confiderably reduced in number, and yet any cafiual damages more eafily repaired at fea. Top-maft fudding fails are occafionally fubftituted for awnings, and might, by a very little attention in planning the rigging of a thip, be fo contrived as to anfiwer both purpofes. See Shipbuilding.

SAIL is alfo a name applied to any veffel feen at a diftance under fail, and is equivalent to fhip.

To fet SAIL, is to unfurl and expand the fails upon their refpetive yards and flays, in order to begin the action of failing.

To Make S'AlL, is to fpread an additional quantity of fail, fo as to increafe the thip's velocity.

To Jiorten S.IIL, is to reduce or take in part of the fails, with an intention to diminifh the thip's velocity.

To Servee S.IIL, is to lower it fuddenly. This is particulaly uled in faluting or doing hamage to a finperior force, or , one whem the law of nations acknowledges as fuperior in certain regiesc. Thus all foreign reffels flrike to a Buitifh man of war in the Dritilh feas.

SAILING, the movement by which a veficl is wafted along the furtace of the water, by the action of the wind upon her lails.

When a flisi clanges her flate of reft into that of motion, as in advanci:g out of a harbour, or from her flation at anchor, fhe acquires her motion very gradually, as a body which arrives not at a certain velocity till after an infinite repetition of the action of its weight.
The firt impreflion of the wind greatly affects the velocity, becaute the refiflance of the water might defroy it ; fince the velocity being but fruall at firl, the refiftance of the water which depends on it will be very feeble: but as the thip increafes her motion, the force of the wind on the fails will be diminithed; whereas, on the contrary, the refiffance of the water on the bow will accumulate in proportion to the velocity with which the vefiel advances. Thus the repetition of the degrees of force, which the action of the fails adds to the motion of the fhip, is perpetually decreafing; whilft, on the contrary, the new degrees added to the effort of refiltance on the bow are always autgmenting. The velocity is then acoelerated in proportion as the quantity added is greater than that which is fubtracted; but when the two powers become equal; when the impreflion of the wind on the fails has lof fo much of its force, as only to act in proportion to the oppofite impulfe of refiftance on the bow, the nlip will then açquire no additional velocity, but continue to fail with a conilant uniform motion. The great weight of the fhip may indeed prevent her from acquiring ber greateft velocity; but when the has attained it, the will advance by her own intrinfic motion, without gaining any neerv degree of velocity, or leffening what the has acquired. She moves then by her own proper force in vacuo, without being afterwards fubject either to the effort of the wind on the fails, or to the refiftance of the water on the bow. If at any time the inipulfion of the water on the bow fhould deffroy any part of the velocity, the effort of the wind on the fails will revive it, fo that the motion will continue the fame. It muf, liowever, be obferwed, that this flate will only fubfirt when thefe two powers act upun each other in direct oppofition; otherwile they will mutually deftroy one atother. The whole theory of working flins depends on this counter action, and the perfect equality which fhould fubfift between the cffort of ti.e wind and the impuifion of the water.

The effect of fuiling is produced by a judicious arrangement of the lails to the direction of the wind. Accordingly the vari uns modes of failing are derived from the different degrees and fituations of the wind with regard to the courlic of the veffel. Sce Seamans"Ip.

## 5 A I [ 454 ] S A I

Sail. To illuftrate this obervation by examples, the plan of a number of thips procueding on various courfes is
Fig. 3. reprefented by fig. 3. which exhibits the 32 points of
the compafs, of which C is the centre; the direction of the wind, which is northerly, being exprefied by the arrow.

It has been obferved in the articl\% CLose-Hauled, that a thip in that fituatio: will fail uealy within fix points of the wind. Thus the Dhips B and $y$ are clofehauled; the former being on the larboard tack, Ateering E. N. E. and the latter on the ftarboard tack, failing W. N. W. with their yards $a b$ braced obliquely, as fuitable to that manner of failing. The line of battle on the larboard tack would accordingly be expreffed by CB , and on the Itarboard by $\mathrm{C} y$.

When a hip is neither clofe-hauled, nor fteering afore the wind, the is in general faid to be failing large. The relation of the wind to her courfe is precilely determined by the number of points between the latter and the courfe clofe hauled. Thus the thips $c$ and $x$ have the wind one point large, the former iteering E. $b \mathrm{~N}$. and the latter W. $b \mathrm{~N}$. The yards remain almoft in the fame pofition as in B and $y$; the bowlines and fheets of the fails being only a little flackened.

The fhips $d$ and $u$ have the wind two points large, the one fteering eaff and the other weff. In this manner of failing, however, the wind is more particularly faid to be upon the beam, as being at right angles with the keel, and coinciding with the pofition of the hiip's beams. The yards are now more aciofs the thip, the bowlines are caft off, and the fheets more relaxed; fo that the effort of the wind being applied nearer to the line of the fhip's courfe, her velocity is greatly augmented.

In $e$ and $z$ the nlips have the uird three points large, or one point abaft the beam, the courfe of the former Leing E. $b \mathrm{~S}$. and that of the latter W. $b$ S. The fheets are flill more flowing, the angle which the yards make with the keel further diminitied, and the courfe accelerated in proportion.

The fluips $f$ and $f$, the firn of which fleers E. S. E. and the fecond WV.S. W. have the wind four points large, or two points abaft the beam. $\ln g$ and $r$ the wind is five points large, or three points abaft the beam, the former failing S. E. $b$ E. and the latter S. W. $b \mathrm{~W}$. In both thefe fituations the ffeets are fill farther flackened, and the yards laid yet more athwart the hip's length, in proportion as the wind arproaches the quarter.

The flips $h$ and $q$, fleering S. E and S. W. have the wind fix points large, or more properly on the quarter ; which is confidered as the moft favourable manner of failing, becaufe all the fails co operate to increafe the fhip's velocity : whereas, when the wind is right aft, as in the Cuip $m$, it is evident that the wind in its paffage to the foremefl fails will be intercepted'hy thofe which are ferther aft. When the wind is on the guarter, the fore-tack is brought to the cat licad; and the main-tach bcing caft cff, the neather-clue of the main-fail is hoiffed up to the vard, in crder to let the uind pafs frecly to the fore-fail ; ard the yads are dif. jofed fo as to make an encle of alout two puints, or nearly $22^{\circ}$, with tie keel.

The fitips $i$ and $p$, of which the former fails S. F. $L$ S. and the lutter S. W. $l$ S. are faid to have the wind
three points on the larboard or flarboard quarter : and thofe expreffed by $k$ and $o$, two points; as fteering S.S.E. and S.S. W. in both whicla pofitions the yards make nearly an angle of $16^{\circ}$, or about a point and a haif, with the hip's length.

When the wind is one point on the quarter, as in the flips $l$ and $n$, whole courles are S. $b$ E. arid S. $b$ W. the fittation of the yards and fails is very little diffesent from the lalt mentioned; the angle which they make with the keel being fomewhat leis than a point, and the flay-fails being rendered of very little fervice. The fhip $m$ fails right afore the wind, or with the wind right aft. In this pofition the yards are laid at right angles with the fhip's length: the ftay-fails being entirely ufelefs, are hauled down; and the main-fail is drawn up in the brails, that the fore-fail may operate; a meafure which confiderably facilitates the fieerage, or effort of the helm. As the wird is then intercepied by the main-top-fail and main top-gallant-fail, in its paffage to the fore-top-fail and fore top-gallant fail, thefe latter are by confequence entirely becalmed; and might therefore be furled, to prevent their being fretted by flapping againft the maft, but that their effort contributes greatly to prevent the thip from broaching-to, when the deviates from her courle to the right or left thereof.

Thus all the different methods of failing may te divided into four, viz. clofe-hauled, large, quarteling, and afore the wind; all which iclate to the direction of the wind with regard to the thip's courle, and the arrangement of the fails.

Salling alfo implies a particular mode of navigation, formed on the principles, and segulated by the laws, of trigonemetry. Hence we fay, Plian Siiling, Mercator's, Middle latitude, Parallel, and Great-circle Sailing. See the article Navication.

SAll-Making, the art oa making fails. See Sail and Ship-building.

SAILOR, the fame with Mariner and Seaman.
SAINT, means a perfon eminent for piety and virtue, and is generally applied by us to the apofles and otler holy perfons mentioned in Scripture. But the Romanifs make its application much more cxtenfive. Under the word Canonization we have already faid fomething on their practice of creating faints. Our readers, however, will not, we truft, be difpleated with the following more enlarged account, which they themfelves give of the matter. The canonization of fains, then, they tell us, is the cnrolment of any perfon in the canon or catalogue of thofe who are called faints; or, it is a judgement and fentence of the church, by which it is declared, that a deceafod jeifon was eminent for fanctiry during his lifetime, and efpecially towards the end of it; and that confequently he mult now be in glory with God, and deerves to be honoured by the church on earth with that veneration which fle is wont to pay to the bleffed in heaven.

The difcipline with regard to this matter has varied, It would feem that in the firth ages every biffop in his own diocefe was wont to declare what perfons were to te honoured as faints ly his people. Hence St Cyprian, abont the middle of the third contury, B. 3 . cp. 6. requires that he he inforned of thofe who ftould dic in prifon for the faith, that fo he might make mention of then in the l.oly facrifice with the martyrs,
-7ia. 1.



$\therefore / 1 / 11.11$.. Na/ N. - ,
and might honour them afterwards on the anniverfary day of their happy death. This veneation continued fometimes to be confined to one country; but fometimes it extended to dittant provinces, and even became univerfal all over the church. It was thus that St Lethrence, St Ambrofe, St Auguftine, St Bafil, and many others, appear to have been canonized by cuftom and univerfal perfuafion. In tho $r_{e}$ ages none were reckoned faints but the apofles, the martyrs, and ve:y eminent confeffors, whofe fanetity was notorious everywhere.

Afterwards it appears that canonizalions were wont to be performed in provincial fynods under the direction of the metropolitan. It was thus that St Ifidore of Seville was canonized in the gth century, by the 8th council of Toledo, 17 years atter his death. This manner of canomization continued occafionally down to the $12 t h$ century. The laft inftance of a faint canonized in that way, is that of St Walter abbot of Pontoife, who was declared a faint by the archbifhop of Rouen in the year 1153 .

In the 12 th century, in order to prevent miftakes in fo delicate a matter, Pope Alexander III. jud red it proper to referve this declaration to the holy fee of Home exclufively; and decreed that no one fhould for the future be honoured by the church as a faint without the exprefs approbation of the pope.

Since that time, the canonization of faints has teen carried on in the form of a procefs; and there is at Rome a congregation of cardinals, called the congregation of holy riles, who are aflifted by feveral divines under the name of confillors, who examine fuch matters, and prepare them for the decifion of his holinefs. When therefore any potentate, province, city, or religious body, think fit, they apply to the pope for the canonization of any perfon.

The firft jurilical ftep in this bufinets muft be taken by the bifhop in whofe diocefe the perfon for whom the application is made had lived and died, who by his own authority calls witneffes to atteft the opinion of the holinefs, the virtues, and miracles, of the perfon in queftion. When the deceafed has refided in different diocefes, it may be neceflary that different bihops take fuch depofitions; the originals of which are preferved in the archives of their refpective churches, and authentic copies feaied up are fent to Rome by a fpecial meffenger, where they are depofited with the congregation of rites, and where they muft remain for the fpace of en years without being opened. They are then openef. and maturely examined by the congregation, and with their advice the pope allows the caufe to go on or not as he thinks proper. The folicitors for the canonization aze then referred by his bolinefs to the faid congregation, which, with his authority, gives a commiffion to one or mere bifhops, or other refpectable perfons, to examine. oin the fpot and in the places where the perfon in queftion has lived and died, into his charafer and wholic bebaviour. Thefe commiffioners fura-
mon witneffis, lake depofiliore, and colicet letters an I other writinge of the venerable man, and get all the intelligence they can concerning him, and the op:nion generally entertained of him. The report of thice commiffioners is confidered attentively and at leng*h by the congregation, and every part of i: cifiuffed by the confultors, when the congregation determines wheller or not they can permit the prices to go on. If it be allowed to proccel, a cardinal, who is called ponent, undertakes to be the principal agent in that atrair. H:e firt quallion then that comes to be examined is, whether or not the pe fun propofed for canonization can be proved to have been in an emitent degree endued with the moral virtues of pudence, juitice, fortitude, and temperance; and with the the logical virtues of fuith, hope, and chariiy? All this is canveffed with great deliveration ; and the:e is a diftinguifled ecclefialtic calied the promoter of the haly farth, who is fworn to make all real nable objections to the proots that are addaced in fovour of the cano. izati: n. If the decifion be favourajoe, then the prec, of miracles done to thow the fanctity of the perfon in quetion are permittud to be brought forwaid; when two mirac!cs nut be verified to the fatistaction of the congregation, both as to the reality of the facts, and as to their having been truly above the power of nature. If the decilion on this comes out likesvife favourable, then the whole is laid before the pope and what divines he choofes ( $\Lambda$ ). I'ublic praver and fatting are likewife prefcribed, in order to obtain light and direction from heaven. After all this long procedure, when the pope is refolved to give bis approbation, he iffues a bull, firit of beatification, by which the perfon is declared bleffed, and afterwards another of fanctification, by which the name of faint is given him. Thefe bulls are publifhed in St Peter's church with very great folemnity.

A perfon remarkable for holinefs of life, even before be is canonized, may be venerated as fuch by thofe who are perfuaded of his eminent virtue, and his prayers may be implored; but all this noult reft on private opinion. After his canonization, his name is inferted in the Martyrolcgy, or catalogue of laints, of which the refpective portion is read every day in the choir at t!e divine office. A day is alfo appointed for a ycarly commemoration of him. His nalie may be mentioned in the public church fervice, and his interceffion with God befought. His relics may be enfhrined: he may be painted with rays of glory, and altars and churches may be dedicated to God in honour of him, and in thankfyiving to the divine goodnefs for the blefings beftowed on him in life, and for the glory to which he is raifed in beaven.

The affair of a canonization is neceflatily very expenfive, becaufe to many perfons muft be employed ahout it; fo many journeys muft be made; fo many writings for and againft it muft be drawn out. The expence altogether amounts to about 25.000 Roman crowns, or 60001 . Iterling. But it is generally contrised
(A) His holinefs generally appoints three confitories; in the firf of which the cardinals only affift, and give their opinion; in the fecond, a preacher romonnres a fpeech in prife of the candidate before a numerous andicnce; to the third, not oniy the cardinals, bu. ..It the bihope who vee at Rome, are invited, and all ef them give their vote by word of mouth.

Saint, Samtes.
trised to canonize two or three at a time, by which means the parti-ular expence of each is very much leffened, the folemnity being common.

It often happens that the folicitors for a canonization are unfucceffful. Thus the Jefuits, even when their intereft at Rome was greateft, could not obtain the canotization of Bellarmine; and it is remarkable, that the objection is faid to have been, his having defeaded the indirect power of the pope over Chriftian princes even in temporals.

Several authors have written on canonization, and particularly Profper Lambertini, afterwards pope under the name of Benedict XIV, who had held the office of promoter of the faith for many years. He publifhed on it a large work in feveral volumes, in folio, of which there is an abridgment in French. In this learned performance there is a full hiftory of the canonization of faints in general, and of all the particular proceffes of that kind that are on record: an account is given of the marner of proceeding in thefe extraordinary trials; and it is fhown, that, befides the affiftance of providence, which is implored and expected in what is fo much connected with religion, all prudent human means are made ufe of, in order to avoid miftakes, and to obtain all the evidence of which the matter is fufceptible, and which mult appear more than fufficient to every impartial judge. See Pope, Popery, \&c.

SAINT Catherine, a Portuguefe ifland in the South fea, not far diffant from the coalt of Brazil. It was vifited by La Peroufe, who afcertained it to lie between $27^{\circ} 19^{\prime} 10^{\prime \prime}$ and $27^{\circ} 49^{\prime} \mathrm{N}$. Lat. and its moft northerly point to lie in $49^{\circ} 49^{\prime}$ W. Long. from Paris. Its breadth from caft to weft is only fix miles, and it is feparated from the main land by a channel only about 200 fathoms broad. On the point ffretching fartheff into this channel is fituated the city of NoAtra Senora del Deftero, the metropolis of the government, and the place of the governor's refidence. It contains about 400 houfes, and 3000 inhabitants, and has an exceedingly pleafant appearance. In the year 1712, this ifland ferved as a retreat to vagabonds, who effected their efcape from different parts of the Brazils, being only nominal fubjects of Portugal. Its whole population has been eftimated at 20,000 . The foil is extremely fertile, producing all ioris of fruit, vegetables, and corn, almoft fpontaneounly. The whale fiftery is very fuccefsful; but it is the property of the crown, and is farmed by a company at Lifoon, which has three confiderable eftablifhments upon the coaft. Every year they kill about 400 whales, the produce of which, both oil and fpermaceti, is fent to Lifon by the way of Rio Janei:o. The inhabitants are idle ficctators of this fifhery, from which they derive not the fmalielt advantage. A very amiable picture, however, is given of their hofpitality to ftrangers, by M. La Perorfe.

Shint-Foin, a fpecies of hedyfarum. See Hedysarum, Botany Index, ard Agriculture Index.

SAINTES, an ancient and confideralle town of France, in the department of Lower Charente. It is the capital of Saintonge, and before the revolution was a bithen's fee. It contained likewife feveral convents, a Jefu'ls $c 11 \mathrm{gc}$, and an abbcy remarkable for its ftceple, which is faid to be one of the loftieft in France. Jt is feated on an eminence, 37 milcs fouth-eaft of hochelle, and 262 fouth-fouth-weft of Paris. W. Long.
e. 38. N. Lat. 45. 54. The caftle is feated on a rock, and is reckoned impregnable.

This city was a Roman colony ; and thofe conquerors of the earth, who polifhed the nations they fubdued, have left behind them the traces of their magnificence. In a hollow valley between two mountains, and almoft adjoining to one of the fuburbs, are the ruins of the amphitheatre. Though now in the lan flage of decay, its appearance is auguft and venerable. In fome parts, fcarcely any of the arches are to be feen; but the eaft end is itill in a great degree of prefervation. From its fituation in a valley, and from the ruins of an aqueduct which conveyed water to the town from near three leagues ciftance, it has been fuppofed that Naumachis were reprefented in it; but this amounts only to conjecture. A triumphal arch, on which is an infcription in Roman letters, merits likewife attention. It was erected to Germanicus, on the news of his death, fo univerfally lamented throughout the empire. The river Charente furrounds this city, as the Severn does that of Shrewbury, defcribing the form of a horfe-ftoe.

Escept the remains of Roman grandeur yet vifible at Saintes, the place contains very little to detain or amufe a traveller. It is built with great irregularity; the ffrects are narrow and winding, the houles mean, and almoft all of them are fome centurics old. The cathedral has been repeatedly defaced and deftroyed by Normans and Huguenots, who made war alike on every monument of art or piety. One tower only efcaped their rage, which is faid to have been built as early as the year 800 by Charlemagne. It is of an enormous magnitude, both as to height and circumference. Thefe circumftances have probably conduced more to its prefervation during the fury of war, than any veneration for the memory of its founder, or for the fanclity of its inftitution.

SAINTOGNE, a province of France, now forming with the province of Aunis the department of Lower Charente, is bounded on the eaft by Angoumois and Perigord, on the north by Poitou and the territory of Aunis, on the weft by the ocean, and on the fouth by Bourdelois and Giron, about 62 miles in length and 30 in breadth. The river Charente runs through the middle of it, and renders it one of the finelt and molt fertile provinces in France, abounding in all forts of corn and fruits; and it is faid the beff falt in Europe is made here.

The SAINTS, are three fmall inands, three leagues diftant from Guadaloupe, which form a triangle, and have a tolerable harbour. Thirty Frenchmen were fent thither in $16 \not 48$, but werc foon driven away by an exceffive drought, which dried up their only fpring before they had time to make any refervoirs. A fecond attempt was made in 1652 , and permanent plantations were cftablifhed, which now yield 50,000 weight of coffce, and 100,000 of cotton.

SAJENE, a Ruffian meafure of length, equal to about feven Enyliih feet.
SAKRADAWENDRA is the name of one of the Ceylonefe deities, who commands and governs all the reft, and formerly anfwered the prayers of his worfhippers; but according to the fabulous account which is given of him, the golden chair, on which he fat, and the foot of which was made of wax, that was foftered by thcir prayers and tears, and funk downwaid, fo that

## Sairtes

il
Sdkrada-
wendra.

## S A L [ 457 ] S A L

 being difpofed of among the poor, they no longer dcrive any benefit from him, or pay lim any revcrence. See Budun.SAL. See Sait.
SALADIN, a famous fultan of Egypt, equally renowned as a warrior and legillator. He fupported himfelf by his valour, and the influence of his amiable charaeter, againtt the united efforts of the chief Chriktian potentates of Europe, who carried on the moft unjuft wars againft him, under the falfe appellation of Holy Wars. See the articles Egppt and Crolsade.

SALAMANC.A, an ancient, large, rich, and populous city of Spain, in the kingdom of Leon, fituated on the river Tormes, about 75 miles weft from Madrid. It is faid to have been founded by Teucer the fon of Telamon, who called it Salamis or Salmantica, in memory of the ancient Salamis. Here is an univerfity, the greateft in Spain, conffiting of $2+$ colleges, and perhaps inferior to none in the whole world, in refpect at leait to its revenues, buildings, number of fcholars, and mafters. Here are alfo many grand and magnificent palaces, fquares, convents, churches, colleges, chapels, and hofpitals. The biftop of this country is fuffragan to the archbifhop of Compoftella, and has a yearly revenue of 1000 ducats. A Roman way leads faom hence to Merida and Seville, and there is an old Roman bridge over the river. Of the colleges in the univerfity, four are appropriated to young men of quality; and near it is an infirmary for poor fick fcholars. IV. Long. 6. io. N. Lat. 4 I. 0 .

Salamander. See Lacirti, Erpetology Index.

SAL.AMIIS, an ifland of the Archipelago, fituated in E. Long. 34. O. N. Lat. 37. 32.-lt was famous in antiquity for a batt'e between the Greek and Perfian fleets. In the council of war held among the Perfians on this occafion, all the commanders were for engaging, becaufe they knew this advice to be moft agrecable to the king's inclinations. Queen Artemifia was the only perfon who oppofed this refolution. She was queen of Halicamaffus ; and followed Xerxes in this war with five thips, the beft equipped of any in the fleet, except thofe of the Sidonians. This princefs diftinguifted herfelf on all occafions by her fingular courage, and fill more by her prudence and conduct. She reprefented, in the council of war we are feaking of, the dangerous confequence of engaging a people that were far more expert in maritime affairs than the Perfians; alleging, that the lofs of a battle at fea would be a'tended with the ruin of their army; whereas, by fimning out the war, and advancing into the henrt of $G$ reece, they would ereate jealoufies and divifions among their enemics, who would feparate from one another, in o-der to defend each of them their own couritry; and that the king might, almoft without ftriking a blow, make himfeif mafter of Greece. This advice, though very prudert, was not followed, bet an engagement unanimoufly refolved upon. Xerxec, in order to encourage his men by his prefence, cauled a throne to bcerefted on the top of an eminence, whence he might fofely behold whater-r happened; having feveral feribes atout him, to uri.e down the names of fuch as frould fienalize themrel es againt the enemy. The approach of the Perfian flect, xith the news that a frong detachment from the army
Vot. XVIII. Part II.
was marching again! Cleombrotus, who defended the Salamit illhmus, ftruck fuch a terror into the Peloponnefans, that they could not by any intreaties be prevailed upon to ftay any longer at Salamis. Being therefore determined to put to fea, and fail to the ifthmus, Themiftocles privatcly difpatched a trufty friend to the Perfian commanders, informing them of the intended flight; and exhorting them to fend part of their feet round the itland, in order to prevent their efcape. The fame meffenger afiured Xerxes, that Themiftocles, who had fent him that advice, defigned to join the Perfians, as foon as the battle began, with all the Athenian fhips. The king giving ceedit to all he faid, immediately caufed a Atrong fquadron to fail round the ifland in the night in order to cut off the enemy's flight. Early next morming, as the Peloponnefians were preparing to fet fail, they found themfelves encompared on all fides by the Perfian fleet ; and were againf their will obliged to remain in the flraits of Salamis and expofe themfelves to the fame dangers with their alliss. The Grecian flect confitted of 380 fail, that of the Perfians of 2000 and upwards. Themiftocies avoided the engagement till a certain wind, which roie regularly every day at the fame time, and which was entirely contrary to the enemy, began to blow. As foon as he found himfelf favoured by this wind, he gave the fignal for battle. The Perfians, knowing thit they fuoght under their king's eve. advanced with great refolution; but the wird blowing directly in their faces, and the largenefs and number of their fhips embarrafing them in a place fo ftrait and narrow, their courage foon abated ; which the Greeks obferving, ufed fuch efforts, that in a flort time breaking into the Perfian ficet, they entirely difordered them, fome flying towards Phalarus, where their army lay encamped; others kiving themfelves in the harbours of the neighbouring illands. The Iouizns were the firf thai betook themielves to fight. But Queen Artemifia diftinguined herfelf above all the iof, her fhips being the latt that fled: which Xerves obferving, cried out thit the men behaved like women, and the women with the courage and intrepidity of men. The Athenians were fo incenfed againt her, that they offered a reward o: 10,000 drachmas to any one that ftould take her alive but fhe, in fpite of all their effurts, got clear of the fhips thaf purfued her, and arrived fafe on the coaft of Affa. In this engagement, which was one of the moit memorable actions we find recorded in hiftory, the Grecians loft 40 ftips ; and the Perfians 200, befides a great many more that were taken, with all the men and ammunition they carried.

The inland of Salamis is of a very irregular fhase; it was reckoned 70 or 8 ว fadia, i. e. 8 or 10 miles long, reaching weftward as far as the mountains called Kerato or The Horns. Paufanias informs us, that on ore fide of this ifland ftood in his time a temple of Diann, and on the other a trophy for a victory ohtained by ThemiAflecles, together withi the temple of Cychreus, the fite of wlich is now thought to be occupied by the church of St Nicholas.

The city of Salamis was demotified by the Athenians, hecaufe in the war with Caffander it furrendered to the Maced …s, fi m difaffeition. In the fecond century, when an wes witsed by Paufanias, fume ruins of the Agora or market-place remained, with a temple and um, -e of Ajax; and liut far from the port was flown a liome, 3 M

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## S A L [ $\left.45^{8}\right] \quad$ S A L

Eatami an hina, they related, Telamon fat to viess the Sala- be prohibited by law, or if the buyer krows that they Elvian flips on their departure to joi:a the Grecian fleet at Au:s. The walls may fill be traced, and it has i gen conjectured were about four miles in circumference. The level tpace within them was now covered with green corn. The port is choked with mud, and was partly diy. Among the fcattered marbles are lome with inlcriptions. One is of great antiquity, before the introduation of the Ionic alphabet. On another, near the purt, the name of Suion occurs. This renowned Lawgiver was a native of Salamis, and a latue of him was eiected in the market-place, with one hand covered by uis ve:t, the modell atituce in which he was accufomod to addefs the people of Athens. An infeription on Sack marble ras alfo copied in 16,6 near the ruin of a tempie, probably that of Ajax. The ifland of Salamis - now inhabited by a few Albanians, who till the k:ound. Their village is called Ampclaki," the Vine"ard," and is at a diftance from the port, itanding more iniand. In the church are marble fragments and fome i.ificriptions.

SALARY, a recomparfe or confideration mede to a perfon for his pains and iadully in another man's buifners. The word is uled in the itatate 23 Edw. 11 I. cap. 1. Sulariunt at firl fignifed the rents or profits of a falle, hall, or houie (and in Gafooggue they now call the feats of the gentry falu's, as we do holls) ; but afterwards it was taken for any wages, ftipend, or ammal ailowance.

SALACIA, a genus of plants belunging to the gynandria clafs. See Borany Index.
S. 1 LE , is the exchange of a commodily for money; batter, or permutation, is the exchange of one comniodity for another. When the bargain is concluded, an obligation is contracted by the buyer to pay the value, and by the leiler to deviver the commodity, at the time and place agreed on, ot immediately if no time be lpecified.

In this, as well as other mercantile contrakt, the fafety of commerce requircs the utmoft good faith and veracity. Therefore, although by the lans of England, a file above the value of 101 . be not binding, un:efs carneft be paid, or the bargain confirmed by writing, a merchant would lafe all credit who refufed to perfirm hie agrecinent, alhough thefe legal requiftes were omited.

When a fpecific thing is fold, the property, even before delivery, is in fome refpect velled in the buyer; and if the thing perifhes, the tuyer muft bear the lofs. For cxample, if a horfe dies before delivery, he mult pay the value: but if the bargain only determines the quantity and quality of the goods, without fecifying the idcutical articles, and the feller's warehoufe, with all his goods, be burned, he is intitied to no payment. He muff alfo tear the lufs if the thing perifis through his fault; or when a particular time and place of delivery is agreed.on, if it peri@ befure it be tendered, in terms of the bargain.

If a perfor purchafe goods at a fhop without agreeing for the price, he is liable for the ordinary marketprice at the time of purchafe.

It the buyer proves i: folvent before delivery, the feller is not bound to deliver the goods wihhout payment or fecurity.

If the importation, or we of the commodities fold,
were finuggled, no ation lies for delivery.
The property of goods is generally prefumed, is fisvuur of commerce, to belong to the poffeffor, and cannot be challenged in the hands of an onerou:s purchafer. But to this tacie are fome exceptions. By the Scots harr, Iftuen goods may in all cales be reclained by the proprictor, and alfo by the Eiglifh law, ualels they were bought bona fue in open market; that is, in the accultomed public places, on illated days, in the country, or in a fhop in Lor don; and horfes may be reclaimed, unlefs the fale be regulatly entered by the bouk-keeper of the matict. In atl caics, it the geod's be cricted by the laa ful iroprictor, the leller is liable to the purchafer for the value.

Attions for payment of fhop accounts, as well as oither dei's not contituted by wring, are limited in England to fix years. The tcitimony of one witnefs is admitted; and the feller's books, aldiough the perfon that kept them be dead, are good evidence for one year. In Scotland, merchanis books may be proved within thrce years of the date of the laft article, by one witnefs, and the creditor's books and oath in fupplement. After three years, they can only be proved by the oath or writ of the debtor. A merchant's books are in all cafes good evidence againft him.

SALEP, ia the Alateria Medica, the dried root of a「pecies of orchis. S.e Orchis, Botasiy Index.

Scveral methods of preparing falep have been propoled and pratifed. Gcoffey has delivered a very judicious procefs for this purpote in the Hit: cire de l'dcademie Rayale des Scicinces, $17+0$; and lietmus, in the Swedib 'Tranfactisus, 1764, has improved Gcoffroy's method. But Mr Muult of liuchdale has lately favour ed the public with a new manner of curing the orchis root; by which falep is picpared, at leat eciual, if not fuperior, to any brought from the Levant. The new root is to be wathed in water; and the fife brown fain which covers it is to be feparated by means of a fmall brufh, or by dipping the root in hot water, and rubbing it with a coarfe linen cloth. When a fufficient number of roots have been thus cleaned, they are to be fpread on a tin-plate, and placed in an oven lieuted to the ufual degree, where they are to ressain fix or ten minutes, in which time they will have loft thicir milky whitenef, and acquired a tranfarency like hom, within ut any diminution of bulk. Being arrived at this flate, they are to be removed, in order to dry ard harden in the air, which will tequire feveral days to effect; or by ufit g a very gentle heat, they may be fnified in a few hours.

Salep thus preparcd, mas tee affard in thofe parts of Eagland wherc labour bears a high value, at abeut cightpence or terpence per pound: And it might be fild fill cheaper, if the crelhis were to be cured, without feparating from it the brown fkin which covers it; a troublefome part of the precefs, and which does not contribute to render the rout cither more palatable or falutary. Whereas the forcign falep is now fold at five or f.x flillings per pound.

Salep is faid to contain the greateft quantity of vegetable nourifhment in the frmalleft bu?k. Hence a very judicious writer, to prevent the dreadful calamity of famine at fea, has lately protored' that' the 'poistier of it fhould conflitute part of the previfions of every hip's company,
company. This powder and portable foup, diffulved in boiling water, furm a rich thick jelly, capable of fupporting life for a confiderable length of time. An ounce of each of thefe articles, with two quarts of boiling water, will be fufficient fubiflence for a man a-day; and as boing a mixture of animal and vegetable food, muft prove more nourithing than double the quantity of rice-cake, made by boiling rice in water: which laft, however, failors are of en obliged folely to fubfitt upon for feveral months; efecially in voyarges to Guinea, when the bread and hoar are exhaufed, and the beef and pork, having beeu falted in hot countries, are become unfit for ule.

* Ejoys

Medial ©nd Fxpe -imertal.
"But as a walefome nouriflment (lays Dr Percival *), rice is much inferior to falep. I ifgeiled feveral alimentary mixtures preoared of mutton and water, beat up with bread, fea-bifcuit, falep, rice flower, fagepowder, potato, old cheefe, Sc. in a heat equal to th.'t of the human boly. In $4^{3}$ hours they had all acquired a vinous fnetl, and were in britk fermentation, except the mixture with rice, which did not emit many airbubbles, and was but little changed. The third day feveral of the mixtures were freet, and continued to ferment; others had lof their inteltine motion, and were four ; but the one which contained the tice was become putrid. From this experiment it appears, that rice as an aliment is flow of fermentation, and a very weak corregor of puircfaction. It is therefore on improper diet for hofpital-patients; but mere particularly for f.itors in long voyages; becatfe it is incapable of preventinc. and will not contribute much to chock, the progrefs of that fatal difeait, the fea fcurve. Under certain cire mfiances, rice feems difpufel of it -lf, without mixtare, to become putrid; for by iong keeping it Lometimes acquires an offenfive foxtor. Nor can it be confidere! as a re:y nutritive kind of food, on a connt of its ditincult folubility in the fomach. Experience confirms the truth of this conclufion ; for it is obferved by the flan ers in the Weft Indies, that the necroes grow thin, and are lefs able to work, whiln tley fubfirt upon rice.
"Sile? h.s the fingular property of concealing the tafte of falt water; a circumflance of the higheit importance at fea, when there is a fearcity of freth water. I difiolved a dram and a half of common falt in a pint of the mucilage of falep, fo liquid as to be potable, and the fame guantity in a pint of fpring water. The falcp was by no means đ̈' ${ }^{\text {aggrceable to the tate, but the water }}$ was rendered extremely unpalatable. This experiment fuggefted to me the trial of the or his root as a currector of acidity, a property which would render it a very ufe. ful diet for chilsren. But the folution of it, when mixed with vinegar, Seemed only to dilute like an equal proportion of water, and not to cover its fharpnefs. Salep, however, appears by my experiments to retard the acetous fermentation of milk; and confequently would be a good lithing, for milk-pottage, efpecially in large towns, where the cattle being Fed upon four draff muft yield acefcent milk.
"Salep in a certain proportion, which I have not yet been able to afcertain, would be a very ufeful and profitable addition to bread. I directed one ounce of the powder to be diffolved in a quart of water, and the mucilage to be mixed with a fufficient quantity of flour,
filt, and yeafi. Tha flour amounted to two poun 1 s, the the yeaft to two ounces, and the falt to 80 grains. The loaf when baked was remarkably well fermented, and weighed three pounds two ounces. Another loaf, made with the fame quantily of flour, \&c, weighed t:ro pounds and 12 ounces ; from which it appears that the falep, though ufed in fo fimall a proportion, increafed the gravity of the loaf fix ounces, abforting and retaining morc water thin the flour alone was capable of. Half a pound of tlour and an ounce of fakp vecre mised together, and the water added according to the ufial method of preparing breal. The loaf when baled weighed 13 ounces and a half; and would probably have been heavier if the falep lat been previoully diffolved in about a pint of water. But it Rhould be remarked, that the quantity of four ufed in this trial was not futtisient to conceal the peculiar tathe of the filep.
ithe reforative, mucilaginowe, and den:u?cent çualities of the orclis root, render it ot confiderable ufe in vartous difeafes. In the fea fcurvy it porve fully obunds the acrimory of the fluids, ard at the fame time is eafily affimilated into a mild and nutritious chyle. In diarrhoeas and the dyfcritery it is highly ferviceable, by Deaching the internal coat of the inteltines, by abating irritation, and gently corrceling putrefaction. In the fymptomatic fever, which arifes from the atforption of fas from tilee:s in the lang, from wounds, or from amputation, falep ufed plentifully is an admirable demulcont, and well adapled to relfif the diffolution of the crafis of the blood, which is fo evident in thefe cafes. And by the fame mucilaginous quality, it is equally efiracious in the ftrangury and dyfury; efpecially in the latter, when arifing from a vesere il canfe, becaufe the difcharge of urine is then attended with the moft exquifite pain, from the ulceration ahout the neck of the bladder and throsgh the courfe of the urethra. I have found it alfo an uleful aliment for patients who labour under the flone or gravel." Thir ancent chemilts appear to have entertained a very high opinion of the orchis root, as appears from the forcta focretorum of Raymund Lully, a work dated 1565 .

SALEPNO, an awsient and confiderable town of Italy, in the kingdom of Naples, and capital of the Hither Principato, with an archbifhop's fee, a caftle, harbour, and an univerfity chiefly for medicine. It is feated at the bottom of a bay of the fame name. E. Long. 14. 53. N. Lat. 40. 35.

SALEI, in War, a liyht covering or amour for the head, anciently worn by the liglithonfe, only different from the calque in that it had no creft and wes little more than a barc cap.

SALIANT, in Fortyifation, denotes projecting. There are two kinds of angles, the one faliant, which have their point outwards; the other, re-entering, which have their points inwards.

Sallint, Salient, or Sailifant, in IIeraldry, is applied to a lion, or other beaft, when its fore-legs are raifed in a leaping pofture.

SAliIC, or Salique, Law, (Lex Solica), an ancient and fundament. 1 law of the kingdom of France, ufually fuppoled to have been made by Pharamond, or at le:ift by Clovis; in virtue of which males only ase to inherit.

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& \text { Sal.p } \\
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## S A L [ 460 ] S A L

Some, as Poftellus, would have it to have becn,called Salic, q. d. Gallic, becaufe peculiar to the Gauls. Fer. Montanus infifis, it was becaufe Pharamond was at firit called Salicus. Others will have it to be fo named, as having been made for the falic lands. Thefe were noble fiefs which their firt kings ufed to beflow on the fallians, that is, the great lords of their falle or court, without any other tenure than military fervice; and for this reafon, fuch fiefs were not to defcend to women, as being by nature unfit for fuch a tenure. Some, again, derive the origin of this word from the Salians, a tribe of Franks that fettled in Gaul in the reign of Julian, who is faid to have given them lands on condition of their perfonal fervice in war. He even paffed the conditions into a law, which the new conquerors acquiefced in, and called it falic, from the name of their former countrymen.

SALICORNIA, JOinted class-wort, or Saltwort: a genus of plants belonging to the monandria clafs; and in the natural method ranking under the 12 th order, Holoracere. See Botany Index.

The inhabitants near the fea-coalts where thefe plants grow, cut them up toward the latter end of lummer, when they are fully grown; and, after having dried them in the fun, they burn them for their afhes, which are ufed in making glafs and foap. Thefe herbs are by the country people called kelp, and promifcuoully gathered for ufe.

SAL1I, in Roman antiquity, priefts of Mars, whereof there were 12, inflituted by Numa, wearing painted, particoloured garments, and high bonnets; with a fleel cuiraffe on the breaft. They were called falii, from faltare "to dance"; becaufe, after affifing at facrifices, they went dancing about the flreets, with bucklers in their left band, and a rod in their right, friking mufically with their rods on one another's bucklers, and finging hymns in honour of the gods.

SALINO, one of the I.ipari iflands, fituated between Sicily and Italy, confifts of two mountains, both in an high ftate of cultivation. The one lying more towards the north than the other is rather the highelt of the two, and is called del Capo, "the head." The ether is called dclla Foffa felice, or the " happy valley." One third of the extent of thefe hills from the bottom to the fummit is one continued orchard, confifting of vines, olive, fig, plum, apricot, and a valf diverfily of other trees. The white roofs of the how'es, which are everywhere interfperfed amid this diverfity of verdure and foliage, contribute to variegate the profpect in a very agreeable manner. The back part of almoft all the houfes is fhaded by an arbour of vines, fupported by pillars of brick, with crofs poles to fuftain the branches and foliage of the vines. Thofe arbours flelter the houfes from the rays of the fun, the heat of which is quite forching in thefe fouthern regions. The vines are extremely fruitful; the poles bending under the weight of the grapes.

The feenes in this ifland are more interefling to the lover of natural hiffory than to the antiquarian. See Reticulum.

On the fouth fide of the inland, however, there are fill to be feea fome fine ruins of an ancient bath, a Roman work. They confif of a wall 10 or is fathoms iu catent ${ }_{1}$ and terminating i.a an arch of r.o great keight,
of which only a fmall part now remains, The build- Salino. ing feems to bave been reduced to its prefent flate rather by the ravages of men than the ipjuries of time. Almoft all the houfes in the ifland are built of materials which have belonged to ancient monuments. The ancients had, in all probability, baths of frefh as well as of falt water in this illand; for whenever the prefent habitations have occafion for a fpring of frefh water, they have only to dig a pit on the flore, and pure fiweet water flows in great abundance.

There were formerly mines of alum here, from which the inhabitants drew a very confiderable yearly revenue. But whether they are exhaufted, or whatever circumftance may have caufed them to be given up, they are now no longer known. The ifland abounds in a variety of fruits.

On the eaff fide it is very populous. There are two places which are both called Lingua, "the tongue," and which contain a good number of inhabitants; the one is near Salino, the other is difinguifhed by the name of St Marina: there are befides thefe two other villages. All thefe places together may contain about 4000 inhabitants : the circumference of the illand may be about 14 miles.

SALISBURY, the capital of the county of Wiltflise in England, fituated in W. Long. 1. 55. N. Lat. 51: 3. This city owed its firft rife to its cathedral, which was begun in 1219, and finihed in 1258. According to an eftimate delivered in to Henry III. it coll forty thoufand merks. It is a Gothic building, and is certainly the moft elegant and regular in the kingdom. The doors and chapels are equal in number to the months, the windows to the days, and the pillars and pilafters to the hours in a year. It is built in the form of a lantern, with a fpire in the middle, and nothing but buttreffes and glafs windows on the outfide. The fpire is the higheft in the kingdom, being 410 fect, which is twice the height of the Monument in London. The pillars and pilafters in the church are of fufile marble; the ast of making which is now either eatirely loft or little known. This magnificent church has lately undergone moft beautiful alterations; with an addition of two fine windows, and an organ prefented by the king. The roof of the chapter houfe, which is 50 feet in diameter and 150 in circumference, bears entirely upon one flender pillar, which is fuch a curiofity as can hardly be matched in Europe. The turning of the weftern road through the city in the reign of Edward III. was a grcat advantage to it. The chancellorhip of the moft noble order of the garter, which is annexed to this fee, was firf conferred on Bihhop Richard Beauchamıp. The hofpital of St Michael's, near this city, was founded by one of its bilhops. Dr Seth Ward, bifhop of this fee in the reign of Charles II. contributed greatly to the making the river Avon navigable to Chrift-church in Hamplliie. The fame prelate, in 1683 , built, an hofpital for the entertainment of the widows of poor clergymen. There are three other churches befides the catlicdral, which is without the liberty of the city, and a greater number of boarding fchools, efpecially for yourg ladics, than in any other town in Eugland. Here is a manufacture of druggets, flannels, bonelace, and thofe cloths called Saliflury whitcs it in conficcration of, which, and its fairs, raarkel:, affizef,
boarding-

## S A L

Salizury boarding-fchools, and clergy', the city may be jufly faid
Sa to be in a flourifing condition. It 'was incorporated
Salit: by Henry III; and is govemed by a mayor, high-fteward, recorder, deputy-recorder, 24 aldermen, and 30 affiftants or common-council men. The number of fouls is about 7668 . A new council chamber, with proper courts of juftice, was built here in the year 1794 by the earl of Radnor; to which Mr Huffey was allo a yreat benefactor. That quarter called the Clofe , where the canons and prebendaries live, is like a fine city of itfelf. In this town are feveral charity-fchools; the expence of one of them is entirely defrayed by the bifhop. The city gives title of earl to the noble family of Cecil.

SALISBUR Y Plain. The extenfive downs in Wilthire, which are thus denominated, form in fummer one of the moft delightful parts of Great Britain for extent and beauty. It extends 28 miles weft of Weymouth, and 25 eaft to Winchelter; and in fome places is near 40 miles in breadth. That part about Salifbury is a chalky down, and is famous for feeding numerous flocks of fheep. Confiderable portions of this tract are now enclofing, the advantages of which are fo great, that it is hoped the whole will undergo fo beneficial a change. This plain contains, befide the famous Stonehenge, numerous other remains of antiquity.

SALIVA, is that fiuid by which the mouth and tongue are continually moiftened in their natural flate; and is fupplied by glands which form it, that are called falivary glands. This humour is thin and pellucid, incapable of being concreted by the fire, almoft without tafte and fmell. By chewing, it is exprefled from the glands which feparate it from the blood, and is intimately mixed with our food, the digeftion of which it greatly promotes. In hungry perfons it is acrid, and copioufly difcharged; and in thofe who have fafted long it is highly acrid, penetrating, and refolvent. A too copious evacuation of it produces thimt, lofs of appetite, bad digeftion, and an atrophy.

SALIVATION, in Medicine, a promoting of the flux of faliva, by means of medicines, motly by mercury. The chief ufe of falivation is in difeafes belonging to the glands and membrana adipofa, and principally in the cure of the venereal difeafe; thourgh it is fometimes alfo ufed in epidemic difeafes, cutaneous difeales, \&c. whofe crifes tend that way.

SALIX, the willow, a genus of plants belonging to the dioceia clafs; and in the natural method ranking under the joth order, Amertacea. Sce Borany Index.

Willow trees have been frequently the theme of poetical defcription, both in ancient and modern times. In Virgil, Horace, and in Ovid, we have many exquifite allufions to them and their feveral properties; and for a melancholy lover or a contemplative poet, imagination cannot paint a fitter retreat than the banks of a beautiful river, and the ftrade of a drooping willow. The Babylonica, Bahylonian pendulous falix, commorily callep weepitts willow, grows to a large fize, having numerous, long, flender, pendulous branches, banging dowo loofely all around in a curious mantier, and long, narrow, fpear fhaped, ferrated, fmuoth leaves. This curious willow is a native of the caff, and is retained in ouv liardy plantations for ornament; and exhibits a moft ofrceable varie'y, particularly when lifpofed fingly by
the verges of any picce of water, or in fpacious openings of grafs ground.

All the fpecies of falix are of the tree kind, very hardy, remarkably faft growers, and feveral of them attaining a confiderable flature when permitted to run up to ftandards. They are moflly of the aquatic tribe, being generally the moft abundant and of molf profperous growth in watery fituations: they however will grow freely alnoft anywhere, in any common foil and expofure ; but grow confiderably the fafteft and flrongeft in low moill land, particularly in marfly fituations, by the verges of rivers, brooks, and other waters; likewife along the fides of watery ditches, \&c. which places often lying wafte, may be cmployed to grod advantage, in plantations of willows, for different purpofes.

SALLEE, an ancient and confiderable town of Africa in the kingdom of Fe , with a harbour and feyeral ports. The harbour of Sallee is one of the bent in the country ; and yet, on account of a bar that lies acrofs it, fhips of the fmalleft draught are forced to unload and take out their guns before they can get into it. There are docks to build fuips; but they are hardly ever ufed, for want of dkill and materials. It is a large place, divided by the river Guero into the Old and New Towns. It has long been famous for its rovers or pirates, which make prizes of all Chriftian fhips that come in their way, except there is a treaty to the contrary. The town of Sallee in its prefent flate, though large, prefents nothing worthy the obfervation of the traveller, except a battery of $2 \downarrow$ pieces of cannon fronting the fea, and a redoubt at the entrance of the river, which is about a quarter of a mile broad, and penetrates feveral miles into the interior country. W. Long. 6. 30. N. Lat 34. 0.

SALLEI', or SALAD, a difl of eatable herbs, ordinarily accompanying roaft meat ; compofed cliefly of crude frefl"kerbage, leafoned with falt, oil, and winegar.

Menage derives the word from the Latin falata; of fal, " falt;" others from falcedo; Du-Cange from falgama, which is ufed in Aufonius and Columella in the fame fenfe.

Sorne add muftard, hard eggs, and fugar; others, pepper, and other fuices, with orange-peel, fuffron, \&s.

The principal fallet-herbs, and thofe which ordinarily makie the bafis of our Englifh fallets, are lettuce, celery, endive, creffes, radif, and rape; along with which, by way of furniture, or additionals, are ufed purifane, fpinach, forrel, tarragon, burnet, corn-falle', and chorvil.

The gardeners call fome plants fmall hict bs in fallets; there flould always be cut while in the fead-leaf: is creffes, muftard, radifh, turnep, fipinach, and lettuce ; all which ate raifed from feeds fown in drills, or linee, from the middle of February to the end of March, un der glaffes or frames ; and thence to the middle of Nay, upon matural beds, warmly expofed; and duting the fummer heats in more flady places; and afterwards in September, as in March, \&\&c ; and laftly, in the rigour of the winter, in hot-beds. If they chance to be frozen in very frofy weather, putting then in furing-water two hours before they are ufed recovers them.
S.1LLO, DEisis DE, a Frencle writer, famus, for

Salix.
II
Sallo.

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Sa", beiris the prucetor of literany joumals, was born at Paris in 1626 . He iludied the lave, and was admitted a counfellor in the parliament of Paris in 1652 . It was in 1664 he fehemed the plan of the Journal des Sfavers; and the vear following began to publifh it under the name of Sisur de Heronville, which was that of his walet de chambre. But he played the critic fo leverely, that au،hors, furprifed at the novelty of fuch attacks, retoried fo power:ully, that M. de Sallo, unable to weather the thorm, after he had publilhed his third Journa!, declined the undertaking, and turned it over to the able Gallois; who, without prefurning to criticile, contented himfelf merely with giving titles, and making extracts. Such was the origin of literary joutnals, which afterwards fprang up in other countries under difierent titles; and the fuccefs of them, under judicious manasement, is a clear proof of their utility. M. de Sallo died in $\mathbf{1} 669$.

SALLUSTIUS, Caius Crispus, a celebrated Ronan liilorian, was born at Amiternum, a city of Italy, in the year of Rome 669 , and before Chriti 85 . His education was literal, and he mads the beft ufe of it. His Romsn hilory in fix books, from the death of Sylla to the confiracy of Catiline, the great work from which he chiefly derived his glory among the ancients, is unfortunately loft excepting a few fragments; but bis two detached pieces of hiltory which happily remain entire, are fefficient to jultify the great encomiums he has received as a writer.- IHe has had the fingular honour to be trvice tranflated by a roval hand: fert by our Elizabech, according to Camden; and fecondly, by the prefent Intant of Spain, whofe verfion of this elegant hitcrian, latcly printed in folio, is one of the moft beautiful books that any country has pruduced funce the invertion of prirting. No man has inveighed more tharply againt the vices of his aga than this hiforian; yet no man had fever pretestions to virtue. His youth was fpent in a moft lewd and profligate manner ; and his patrimony almoft fquandered away when he had fearcely taken poffeffion of it. Marcus Varro, a writer of undoubted credit, relates, in a fragment preferved by Aulus Gellius, that Salluft was actually caught in bed with Faufia the daughter of Sylla, by Milo her humband; who fcourged him very feverely, and did not fuffer him to depart till he haid redeemed his liberty with a confiderable fum. A. U. C. 694, he was made queftor, and in $7>2$ tribune of the people; in neither of which places is he allorved to have acquitted himfelf at all to his honour. By virtue of his queftorflip, he obtained an admiffion into the fenate ; but was expelled thence by the cenfors in 754 , on account of his immoral and debruched way of life. In the year 7os Cæfar reftored him to the dignity of a fenator; and to introduce him into the houfe with a better grace, made him queftor a fecond time. In the adminiftration of this office he beliaved himiclf very fcandaloufly: expofed every thing to fale for which he could find a purchafer ; and if we may believe the athor of the invective, thought nothing wrong which he hed a mind to do: Nihul non venale hatuerit, cujus aliquis enspor fuit, nithil non equum ol verum dusit, guod ipf facere collibuiffer. In the year 707, when the African war was at an end, he was made protor for his fervices to Cefar, and fent to Numidia. Here he neted the fame part as Verres had done in Sicily ; out-
rageoully plundered the province ; and relumed with Salluftiss fuch immenfe riches to Rome, that be purchaled a moft magrificent building upon Mount Quirina!, wish thofe gardens which to this day retain the name of Sallufian gardens, befides his country houfe at Tivoli. How he lpent the remaining part of his life, we have no account from ancient writers. Eufebius tells us that he married Terentia, the divorced wife of Cicero; ans that he died at the age of 50 , in the year 710 , which was about four years before the battle of A.tium. Of the many things which he wrote, befide bis Hiftories of the Catilinarian and Jugurthine wars, we have fome orations or fyeeches, printed with his fragments.

SALLY-ports, in fortification, or Pofern-Gaies, as they are fometimes called, are thofe under-ground paffages which lead from the inner works to the outward oncs; fuch as from the higher flank to the lower, or to the tenailles, or the communication from the middie of the curtain to the ravelin. When they ars made for men to go through only, they are made with fteps at the entrance and going out. They are about 6 feet wide and $\delta \frac{1}{2}$ feet high. There is alfo a gutier or fiore made under the fally-ports, which are in the middle of the curtains, for the water which runs down the freets to pafs into the ditch ; but this can only be done when they are wet ditches. When fally ports ferve to cary guns through them for the out-works, inflead of making them with fleps, they muf have a gradual flope, and be 8 fect wide.

SALMASIUS, CiAUDIES, a French writer of uncommon abilities and immenfe erudition, defcended from an ancient and noble family, and born at or near Semur in 1596 . His mother, who was a Proleflant, infufed her, notions of religion into him, and he at length converied his father: he fettled at Leyden ; and in 3650 paid a vifit to Chriftina queen of Sweden, who i- reported to have flown him extraordinary marks of regard. Upon the violent death of Charles I. of England, he was prevailed on by the royal family, then in exile, to write a defence of that king; which was anfwered by our famous Milton in 1651 , in a work intitied Dcfenfio pro Populo Anglicano contro Claudii Salmafii Dif:njioutni Regiam. This book was read over all Europe ; and conveyed fuch a proof of the writer's abilities, that he was refpected eren by thofe who hated bis principles. Salnafius died in 1653 ; and forne did not formpie to fay, that Milton killed him by the acuicnel's of his' reply. His works are numerous, and of various kinds; but the greateft monuments of his learning are, his Norie in Hijforice Augufce Scribtores, and his Exercitationes Pizniance in Sclinum.

SALNO, the SALmon ; a genus of fikes belonging to the order of abdominales. See Ichtayolocy In$d=x$.

SALMON. See Salmo, Ichthyology Index. SAI, uov-F̈lkery. See Salmon FISHER ?.
SALTIN, or SALOON, in architecture, a lofty, fpacious fort of hall, vaulted at top, and ufually comprehending two flories, with two ranges of windows.

The taloon is a grand room in the middle of a building, or at the head of a gallery, \&c. Its faces, or fides, are all to have a fymmetry with each other ; and as it ufually takes up the beight of two Itories, its ceiling, Daviler obferres, flould be with a moderate fweep:

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The faloon is a flate-room much ufed in the palaces in Italy; and from thence the mode came to us. Ambafadors, and other great vifitors, are ufually reccived in the fa'con.

It is fometimes built fquare, fomet m s round or oral, formetimes octagonal, as ai Marly, and forecimes in other forms.

SALCNA, a fea prot town of Dalmatia, feated on a bay of the gulf of Venice. It was formerly a very conficerable $\mathrm{F}!\mathrm{e}$, and its reine fhow that it was 10

* Fortij's miles in circumierence. It is 18 miles north of Spa-

Tawis in latto, and ubjeof to Venice. It is naw a wretched
was called the frranary of Goa. It abour.ds alfo in all kinds of provitions, and has great plenty of game, both of the four-forsed and featheied kird. It has pretty high mountains; and there is a tradtion that the whole was thrown up if of the hottom of the fed: in confirmation of which it is $\mathrm{F} \cdot \mathrm{J}$, that on the top of the highett hill there was found, fome yc.rs ago, a flone anchor, fuch as was anciently wiled by the inhasitants of that country. Here we muet with the rums of a place calle.d Canara, where there are excavations of rocks, fuppofud to be contemporary with thofe of Eiephanta. They are much more numicrous, itut not comparable to the former either in extent or workmanflip.

The illend of Salfette lately formed part of the Portuguefe dominions in India. It ought to have been ceded to the Englith along with Bumbay, as part of the dowe: of Catharine of Liffon, efpoufed to Charles II. The fulfilment of this article, however, being evaded, the ifland remained in poffitlion of the Portuguefe; and notwithftanuing the litile care they took of it, the revenne of it was valued at 60,0001 . Such was the negligence of the Purtuguefe gover ramt, that they took no curc to fert iy it again: the aticks of the Malirattas, from whofe dominions Sallitite was only feparated by a very narrow pafs forlable at low water. Here they bad only a miferable redoubt of no cumfequence, till, on the appearance of an approaiching war with the Mahratias, they began to build another, which indeed would have anfisered the purpofe of protecting the illand, provided the Mahratas lind allowed them to finill it. This, however, was not their intention. They allowed them indeed to go on quietly with their works till they faw them almolt conpleted, when they came and took poffelion of them. The Mahratt.s thus became dangerous neighbours to the Enslihh at Rombay, until it was ecdid to the latte: liy the treaty concluded sith thefe peophe in 1-So. E. Lu"s. 72. 15 . N. Lat. 19. O.

SALSOLA, Glass wort, a genus of plants belonging to the pentandria clafs; and in the natural method anking under the sath order, Hokracuc. See Eutaxy lithex.
All the foris of glafs-wort are fom.times promifeuounly uied for making the (f) kali, hut it is the third fort which is eitcemed belf for this purrofe. The manner of making it is as follows: Howing dug a trench near the fea, they place laths acrols it, on which they ley the terb in heaps, and, laving maic a fire below, the liguor, which runs out of the heris, drops to the bottom, which at length thickening, beconies f.al kali, which is martly of a black, and partly of an alh-colour, very harp and corrofive, and of a falifh tafte. 'This, when thoroughly hardened, becomes like a flone ; and in that itate is tranfported to difierent countries for making of glafs.

SALT, one of the great divifions of natural bodies. The charaferitic marks of fit have ufually been reckoned its power of affeciing the organs of tatte, and of being foluble in water. But this will not ditlinguih falt from quicklime, which alo affeets the fenfe of tafle, and difflives in water; yct quichlime has been univerfally reckoned an earth, and not a falt. The only diltinguifhing property of falts, therefore, is their cryftallization in water . but this does not belong to all falts; for the nitrous and marine acids though allowed on all hands to be fults, are jet inc-pable of cry Ratiization, at

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 leaft by any method hitherto known. Several of the imperfect neutral falts alfo, fuch as combinations of the nitrous, muriatic, and vegctable acids, with fome kinds of earths, cryflallize with very great difinculty. However, by the addition of firit of wine, or lome other fubilances which abforb part of the water, keeping the liquor in a warm place, \&ic. all of them may be reduced to cryitals of one kind or cther. Salt, therefore, may be defined a tubftance affecting the organs of tafte, foluble in water, and capable of cryitallization, either by itfelf or in conjunction with fome other body ; and, univerlally, every falt capable of being reduced into a folid form, is alfo capable of cryftallization per fe. Thus the clafs of faline bodies will be fufficiently diftinguifhed from all others; for quicklime, though foluble in water, cannot be cryltallized without addition either of fixed air or fome other acid; yet it is molt commonly found in a folid ftate. The precious ftones, bafaltes, \&c. though fuppofed to be formed by cryftallization, are neverthelefs diftinguifhed from falts by their infipidity and intolubility in water.But acids and alkalis, and combinations of both, when in a concrete form, are falts, and of the pureft form. Hence we conclude, that the bodies, to which the name of falts more properly belongs, are the concretions of thofe fubtances; which are accordingly called acid falts, c!kaline falts, and neutral falts. Thefe laft are combinations of acid and alkaline falts, in fuch proportion as to render the compounds neither four nor alkaline to the talte. This proportionate combination is called faturasion: thus common kitchen falt is a neutral falt, compofed of muriatic acid and foda combined together to the point of faturation. The appellation of neutral falts is alfo extended to denote all thofe combinations of acids, and any other fubftance with which they can unite, fo as to lofe, wholly or in great meafure, their acid properties.

But although this general definition of falts is commonly received, yet there are many writers, efpecially mineralogitts, who confine the denomination of falts in the manner we firlt mentioned, viz. to thofe fubitances only which, befides the general properties of falts, have the power of cryftallizing, that is, of arranging their particles fo as to form regular fhaped bodies, called cryfals, when the water fuperfluous to their concrete exifence has been evaporated.

Common SALT, or Sea-Salf, the name of that falt extracted from the waters of the ocean, which is ufcd in greater quantities for preferving provifions, \&c.

It is a perfect neutral falt, compofed of marine or muriatic acid, faturated with mineral alkali. It has a faline but agreeable flavour. It requires about four times its weight of cold water to be diffolved, and nearly the fame quantity of boiling water, according to Macquer. But according to Kirwan, it only requires 2.5 its weight of water to be diffolved in the temperature of fixty degrees of Fahrenheit. This falt always contains fome part formed with a calcareous bafe; and, in order to have it pure, it muft be diffolved in diffilled
" ater; ticu in fel...ton of mineral alkaii i. to te poured in it until no white precipitation appeass ; then by filtrating and evaparating the folution, a pure common falt is produced. Its figure is perfect!y cubic, and thofe holiow pyransids, or tremies as the French call them, as well as the parallelopipeds formed fometimes in its cryttallization, confift all of a quantity of fmall cubes difpofed in thofe forms. Its decrepitation on the fire, which has been reckoned by fome as a characteriftic of this falt, although the vitriolated tartar, nitrous lead, and other falts, have the fame property, is owing chiefly to the water, and perhaps alfo to the air of its cryftallifation.

Its fpecific gravity is 2,120 according to Kirwan. The acid of tartar precipitates nothing from it. One hundred parts of common falt contain thirty-three of real acid, fifty of mineral alkali, and feventeen of water. It is commonly found in falt water and falt fprings, in the proportion of even thirty-fix per cent. It is found alfo in coals, and in beds of gypfum. This falt is unalterable by fire, though it fufes, and becomes more opake : neverthelefs a violent fire, with the free accefs of air, caufes it to evaporate in white flowers, which adhere to the neighbouring bodies. It is only decompofed, as Macquer aftirms, by the fulphuric and nitric acids; and alfo by the boracic or fedative falt. But although nitre is decompofed very eafily by arfenic, this neutral marine falt is nowife decompofed by the fame. According to Monge, the fixed vegetable alkali, when cauftic, decompoles all this marine falt. It preferves from corruption almolt all forts of animal food much better for ufe than any other falt, as it preferves them without deftroying their tafte and qualities; but when applied in too fmall a quantity, it then promotes putrefaction.

Of this mof ufeful commodity there are ample ftores on land as well as in the ocean. There are few countries which do not afford valt quantities of rock or foffil falt. Mines (A) of it have long been difcovered and wrought in England, Spain, Italy, Germany, Hungary, Poland, and other countries of Europe. In feveral parts of the world, there are huge mountains which wholly confilt of foflil falt. Of this kind are two mountains in Ruffia, nigh Aftracan; feveral in the kingdoms of Tunis and Algiers, in Africa; and feveral alfo in Afia; and the whole illand of Ormus in the Perfian gulf almoft entirely confifts of foffil falt. The new world is likewife fored with treafures of this ufeful mineral, as well as with all other kinds of fubterranean productions. Moreover, the fea affords fuch vaft plenty of common falt, that all mankind might thence be fupplied with quantities fufficient for their occafions. There are alfo inrumerable fprings, ponds, lakes, and rivers, impregnated with common falt, from which the inhabitants of many countries are plentifully fupplied therewith. In fume countries which are remote from the fea, and have little commerce, and which are not bleffed with mines of falt or falt-waters, the neceffities of the inhabitants have forced them to inverit a method of extrac-
(A) Amongh the falt mines of chief $1: 0$ e are thofe of Northwich in Cheflirc, Altemonte in Calabria, Halle in Tyrol, Cardona in Catalonia : alfo thofe ftupendous mines at Wilicezan: in Poland, to be noticed in the fe juel of this article, and Souwar in Upper Hengary; of which fee accounts in Puil. Tranf. No 61, and 413.

## S A L [ $46{ }^{5}$ ] S A I.

Salt. ting their common falt from the athes of vegetables. The muriatic falt of vegetables was defcribed by Dr Gress under the title of fixiviated marine falt. Leeuwenhoek obtained cubical cryilals of this falt from a lixiviurn of foda or kelp, and allo from a folution of the lixivial falt of carduns benedictus; of which he hath given figures in a letter to the Royal Society, publifhed in $\mathrm{N}^{-0}{ }^{175}$. of their Tranfactions. Dr Dagner, in Ac7. Acad. N. C. vol. v. obr. 150. takes notice of great quantities of it which he found mixed in potathes. And the ingenious Dr Fothergill extracted plenty of it from the ahes of fern: See Medical EJays, vol. v. article 13 .

The muriatic falt which the excellent Mr Boyle extracted from fandiver, and fuppofed to be produced from the materials ufed in making glafs, was doubtlefs feparated from the kelp made uice of in that procefs. Kunckel alfo informs us, that he took an alkaline falt; and after calcining it with a moderate fire, diffolved it in pure water, and placing the folution in a cool cellar, obtained from it many cryftals of a neutral falt. He fuppofes, that the alkaline falt was by the procefs converted into this neutral falt. But it is more reafonable to believe, that the alkaline falt which he applied was not pure, but mixed with the muriatic falt of vegetables, which by this procefs was only feparated from it.

It is doubtlefs chiefly this muriatic falt which, in fome of the inland parts of Afia, they extract from the athes of duck-wreed and of Adam's fig-tree, and ufe for their common falt.

That they are able in thofe countries to make common falt to profit from vegetables, ought not to be wondered at, fince in Dehli and Agra, capitals of Indoflan, falt is fo fcarce as ufually to be fold for half-a-crown a pound. We may therefore give fome credit to Marco Polo, when he informs us, that in the inner parts of the fame quarter of the world, in the province of Caindu, Iying weft of Tibet, the natives ufed falt inftead of money, it being firt made up in cakes, and fealed with the ftamp of their prince; and that they made great profit of this money by exchanging it with the neighbouring nations for gold and munk. We are alfo told by Ludolfus, in his Hifforia Etliliopica, that in the country of the Abyffines there are mountains of falt, the which when dug out is foft, but foon grows hard ; and that this falt ferves them inftead of money to buy all things. The fame is confirmed by Ramufio.

Mr Boyle difcovered common falt in human blood and urine. "I have oblerved it (fays Mr Brownrigg), not only in human urine, but alfo in that of dogs, hories, and hlack cattle. It may eafily be difcovered in thefe, and many other liquids impregnated with it, by certain very regular and benutiful Itarry figures which appear in their furfaces after congelation. Thefe figures 1 firft obferved in the great froft in the ycar 1739. The dung of fuch animals as feed upon grafs or grain, doth alfo contain plenty cf common falt."

Naturalifts, obferving the great variety of forms under which this falt appears, have thought fit to rank the feveral kinds of it under certain general claffes; diflinguithing it, moft ufually, into rock or folfil falt, fea-falt, and brine or fountain falt. To which claffe, others might be added, of thofe muriatic falts which are found in vegetable and animal fubfences. Thefe fo-

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veral kinds of common falt often differ from each other in their outward forn and appearance, or in luch accidental properties as they derive from the heterogeneous fubilances with which they are mixed. But when perfectly pure, they have all the fame qualities; fo that chemills, by the exactelf inquiries, have not been a sio to difcover any efiential dfference between them; for which reafon we thall dillinguilh common falt atter a different manner, into the three following kinds, viz. into rock or native lalt, bay falt, and white filt.

By rock falt, or native falt, is underilowd ail falt dug out of the earth, which hath not undergone any artificial preparation. Under the title of bay jair may be ranked all kinds of common falt extracted from the water wherein it is diffulved, by means of the fun's heat, and the operation of the air ; whether the waser from which it is extracted be fea-water, or natural brine drawn from wells and fprings, or falt water fiag nating in ponds and lakes. Under the title of whie fall, or boiled falt, may be included all kinds of common falt extracted by coction from the water whercin it is difiolved; whether this water be fea water, or the falt water of wells, fountains, lakes or rivers; or water of any fort impregnated with rock-falt, or other kinds of common falt.

The firft of thefe kinds of $f_{2 l}$ is in feveral countries found fo pure, that it ferves for moft domeltic ufe', without any previous preparation (triture excepted); for of all natural falts rock-jalt is the mof abundantly furnifhed by nature in various parts of the world, being found in large maffes, occupying great tracis of land. It is generally found in ftrata under the furface of the earth, as in Hungary, Mulcovy, Siberia, Poland, Calabria, Egypt, Ethiopia, and the Eaft Indies. " In England (fays Magellan), the falt mines at Northwich are in a high ground, and contain it in layers or Ilrata of various colours, of which the yellow and brown are the moft plentiful, as I have obferved on the fpot, which I vifited in June 1782 , in company with my worthy and learned friend Mr Volta, profefor of na tural philofophy in the univerfity of Pavia, and well known by his great abilities, and many difcoveries in that branch of knowledge. The mine into which we defcended was excavated in the form of a valt dome or vault under ground, fupported by various columns of the falt, that were purpoiely left to fupport the incumbent weight. And the workmen having lighted a nuntber of candles all round its circumference, it furniihed us with the moft agreeable and furprifing fight, whilh we were defcending in the large 10b, which fertes to bring up the lumps that are broken from the minc," \&c.

Wraxall gives the following defcription of the famous falt mines near Cracow in Poland.
" After being let down liays he) by a rope to the Memoira depth of 23 ofeet, our conductors led us through galle- of the ries, which, for loftinefs and breadth, feemed sather to re- Conts of femble the avenues to fome fubterranerous palace, than pai- Berifiti, fages cut in a mine. They were perfectly dry in every I: Rarifisu, part, and terminated in two chi pels compofed entirely and icimne. of fait, hewn ort of the lulid m.'s. The images which adorn the altars, as well i. the pill.rs and ont mentils, were ll of the lame tranfparent materin's; the puith and $\int_{\text {pars }}$ of wizich, refledting the rays of light from thic lamps which the guides held in their hands, produced an effeet equelly novel and beautifut. Defcending low-

## S A L

Salt.
er into the earth by means of ladders, I found myfelf in an immenfe hall or cavern of falt, many bundred feet in height, lengtb, and dimenfions, the floor and fides of which were cut with exact regularity. A thoufand perfons might dine in it withut inconvenience, and the eye in vain attempted to trace or define its limits. Nothing could be more fublime than this vaft fubterranean apartment, illiminated by fiambeaux, which faintly difcuver its prodigious magnitude, and leave the imagination at liberty to enlarge it indefinitely. After remaining about two hours and a half under ground, I was drawn up again in three minutes with the greateft facility."

See alfo an account of the fame mines by Mr Berniard, Journal de Phufique, vol. xvi. for ${ }_{17} \mathrm{So}$, in which the miraculous tales concerning thofe fubterraneous habitations, villages, and towns, are reduced to their proper magnitude and eftimate.

The Englifh foffil falt is unfit for the ufes of the kitchen, until by folution and coction it is freed from feveral impurities, and reduced into white falt. The Britilh white falt alfo is net fo proper as feveral kinds of bay lalt for curing fifh and fuch flelli-meats as are intended for fea provifions, or for exporta.ion into hot countries. So that for thele purpofes we are obliged, either wholly or in part, to ufe bay falt, wlich we furchaie in France, Spain, and other foreign countries.

Hewerer, it does not appear that there is any other thing requifite in the formation of bay fait than to evaporate the fea-water with an exceedingly gentle heat; and it is even very probable, that our common fea-falt by a fecond folution and cryftallization might attain the requifite degree of purity. Without entering into any particular detail of the procelies ufed for the preparation of bay-falt in different parts of the world, v:e fhall content curfelves wihh giving a brief account of the be?t methods of preparing commen filt.

At fome convenient place near the fea-fhore is erceted the faltern. This is a long, low building, confiting of two parts; one of which is called the firc-houfe,
and the other the pan-houfe, or loiling houfe. The forehoufe ferves to receive the fuel, and cover the workmen; and in the boiling-loufe are placed the furnace, and pan in which the falt is made. Sometimes they have two pans, one at each end of the faltern; and the part appropriated for the fuel and workmen is in the middle.

The furnace opens into the fore houfe by two mouths, beneath each of which is a mouth to the allopits. To the mouths of the furnace doors are fitted; and over thern a wall is carried up to the roof, which divides the fore-houfe from the boiling-boufe, and prevents the duft of the coal and the athes and fmoke of the furnace from falling into the falt pan. The fore-houfe communicates with the boiling-houfe by a door, placed in the wall which divides them.
The body of the furnace confifts of two chambers, divided from each other by a brick partition called the mid fiather; which from a broad bafe terminates in a nariow edge nigh the top of the furnace; aud by means of fhort pillars of caft iron crected upon it, fupports the bottom of the falt pan; it alfo fills up a confiderable part of the furnace, which otherwife would be too large, and would confume more coals than, by the help of this contrivance, are reguired. To each chamber of the
furnace is fitted a grate, through which the afles fall into the afh-pits. '1 the grates are made of long bats of iron, fupported underneath by ftrong crofs bars of the fame metal. They are not continued to the fartheit part of the furnace, it being unneceflary to throw in the fucl fo far: for the flame is driven from the fire on the grate to the farthel part of the furnace; and from thence paffes together with the fmoke, through two flues into the chimney; and thus the bottom of the falt fan is everywhere equally heated.

The falt pans are made of an oblung form, flat at the bottom, with the fides erected at right angles; the length of fome of thefe pans is 15 feet, in breadth 12 feet, and the depth 16 inches; but at difierent works they are of different dimenfions. They are commonly made of plaies of iron, joined together with nails, alid the joints are filled with a ftrong cement. Within the pan five or fix ftrong beams of iron are fixed to its oppofite fides, at equal difiances, parallel to each other and to the bottom of the pan, from which they are diftant about eight inches. From thele beams hang down Arong iron hooks, which are linked to other hocks or claps of iron firmly nailed to the bottom of the pan; and thus the bottom of the pas is fupported, and prevented from bending down or changing its figure. The plates moft commonly ufed are of malleahle iron, atout four feet and a half long, a foot broac, and the third of an inch in thichincis. The Scots prefer finaller plates, If or 15 inches fquare. Several make the fides of the pan, where they are not expeifed to the fire, of lead; thofe parts, when made of iron, being found to condime faft in ruif from the fieam of the pan. Some have wied plates of caft iron, five or fix feet iquare, and an inchin thicknefs; but they are very fubject to break when unequally heated, and fhaken (as they frequent!y are): by the violent boiling of the liquar. The cement moft commonly ufed to fill the joints is phaller mase of lime.

The pan, thus formed, is placed over the furmace, being fupported at the four comers by brick wark; but along the middle, and at thie fides and ords, by round pillars of caft iron called raplins, which ase placed at thasee feet diftance from cach other, being about eight inches high, and at the top, mleere finallent, four inches in diameter. By means of thcle pillass the heat of the fire penetrates equally to all parts of the boltom of the pan, its four corners only excepted. Care is alfo taken to prerent the finoke of the fumace from paffing into the boiling-houfe, by bricks and frong cement, which are clofely applied to every part of the falt pan. In fome places, as at Blyib in Northumberlatd, befides the common falt pans here deferibed, they have a preparing fan phaced between two falt pans, in the middle past of the building, which in odter works is the fore houfe. The fearwater being seceived into this preparing pan, is there heated and in port ewaporated by the flame and beat conveycd under it through tilues from the two furnices of thie falt pansi Aud the lict water, as occafion requires, is convcyed through troughs from the prepasing pan into the dait panc Vasious other contrivances have been insented to lefien the expence of fuel, and feveral putents have been oltained for that purpofe; but the falt-boilers liave found thegir old methods the raft conscnicnt.

Between the fides of the pan and walls of the alisik-
ing-

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Satt: ing hotife, there runs a walk fire cor fix feet broad, where the woikmen fand when they draw the falt, or have any oither bufinefs in the boiling-houle. The fame walk is continued at the end of the pam, next to the chimsey; but the pin is pliced clofe to the wall at the end adjoining to the fore-houfe.

The roof of the boiling houre is covered with boards faterned on with nails of wood, ion mails quickly mouldering into ruft. In the reof are feveral openinge, to convey off the watery vapours; and on each fide of it a windor or two, which the workmen open when they look into the pan whillt it is boiling.
Not far ditiant from the faltern, on the fea-flore, between full fea and low water marks, they alio make a little pond in the rocke, or with flones on the fand, which they call their fiump. From this pond they lay a pipe, through which, when the tide is in, the feawater runs into a well adjoining to the faltern; and from this well they pump it into troughs, by which it is conveyed into their fhip or ciltern, where it is fored up until they have eccalion to ufe it.

The ciltern is built clofe to the faltern, and may be placed moft conveniently between the two boilinghoufes, on the back fide of the fore-holife; it is made eitber of wood, or brick and clay; it femetimes wants a cover, but ought to be covered with a fhed, that the falt water contained therein may not be weakened by rains, nor mixed with foot and other impurities. It hould be placed fo high, that the water may conveniently run out of it, through a trough, into the falt pans.

Befides the buildings already mentioned, feveral others are required; as itore houfes for the falt, eifterns for the bittern, an office for his majefty's falt-officers, and a dwelling-houfe for the falt-boilers.

All things being thus prepared, and the fen-water having flood in the ciftern till the mud and fand are fettled to the bottem, it is drawn of into the falt pan. And at the four corners of the falt pan, where the flame does not touch its bottom, are placed four fmall lead pans, called foratch pans, which, for a falt pan of the fize above-mentioned, are ufually about a foot and a half long, a foot broad, and three inches deep; and have a bow or circular handle of iron, by which they may be drawn out with a hook, when the liquor in the pan is boiling.

The falt pan being filled with fea-water, a firong fire of pit-coal is lighted in the furnace; and then, for a pan which contains about 400 gallons, the falt boiler takes the whites of three egge, and incorporates them well with two or three gallons of fea-water, which he pours into the falt pan while the water contained therein is only lukewarm ; and immediately firs it about wilh a rake, that the whites of eggs may everywhere be equally mixed with the falt water.

Infread of whites of eggs, at many falterns, as at mof of thofe nigb Newcaftle, they ufe blood from the butchers, either of fheep or black cattle, to clarify the feawater : And at many of the Scots felterns they do not give themfelves the trouble of clarifying it.

As the water grors liot, the whites of eggs feparate from it a black frothy feum, which arifes to the furface of the water, and covers it all over. $\Lambda s$ foon as the pan begins to boil, this fcum is all rifen, and it is then time to (kim it off.

The moft corvenient inflruments for tha, ,urt ole are fkimmers of thin ath boarts, fix or eight it ci..s broad, and fo long that they may reacis above lidet way over the falt pan. 'Thele thimmers have handles fi: :ed' 1 , them ; and the falt-boiler and bis aftitan, each nuid. ing one of them on the oppolite fides of the pan, app:r them fo to each other that they overlap in tie middie, and beginning at one end of the pan, carry them fentiy forward together, along the lurface of the boi-ing liquor, to the other end; and thus, without breaki-g the icum, collect it all to one end of the par, from vibence they eafily take it out.

After the water is $\mathbb{R k i m m e d}$, it appears perfec 1 l c clear and tranfuarent ; and tiey comtiace boiling it brizk!, till fo much of the frefh or aqueous part is evaposaten that what remains in the pan is a ftrong brine aimot fully faturated with falt, to that frall faline cryitais begin to form on its furlace; which operation, in a pan fillel 15 inches decp with water, is ufually performed in five hours.

The pan is then filled up a fecond time with clear fea-water drawn from the cillern; and about the timic when it is half filled, the feratch-pans are take:r oul, and being emptied of the fcratch foand in them, are again placed in the corners of the falt pan. The fcratch taken out of thefe pans is a fine white caleareous eanhlı found in the form of powder, which leparates from the fea-water during its coction, before the folt begins to form into grains. This lubtile powder is violently agitated by the boiling liquor, until it is driven to the corners of the pan, where the motion of the liquor being more gentle, it fubfides into the foratch pans placed there to receive it, and in them it remains unditturbed, and thus the greateft part of it is feparated from the brine.
After the pan hath again been filied up with fea-water, three whites of eggs are mixed with the liquor, by which it is clarified a fecond time, in the manner beiore defcribed; and it is afterwands boiled down to a ftrong brine as at firlt; which fecond boiling may take u; about four bours.

The pan is then filled up a third time with clear feawater; and after that, a fourth time; the liquor being each time clarified and boiled down to a ftrong biine, as before related; and the fcratch-pans being taken out and emptied every time that the pan is filled up.

Then, at the fourth boiling, as foon as the cryftals begin to form on the furface of the brine, they flacken the fire, and only fuffer the brine to fimmer, or boil very gently. In this heat they conftantly cudeavour to keep it all the tine that the lalt corns or granulates, which may be nine or ten hours. The falt is faid to granulate, when its minute cryltals cohere together into little maffes or grains, which fink down in the brine and lie at the bottom of the falt pan.

When moft of the liquor is evaporated, and the falt thus lies in the pan almoft dry on its farface, it is then time to draw it out. This part of the procefs is performed by raking the falt to one fide of the pan inte a long heap, where it drains a while from the brine, and is then filled out into barrows or other proper veffels, and carried into the flure houfe, and delivered into the cuifody of his majeity's officers. And in this manner the whole procefs is performed in 24 hours; the falt being ufually drawn every morning.

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In the fore houfe the falt is put hot into drabs, which are partitions like ftalls for hories, lined on three fides and at the boitom with boards, and having a flidingboard on the fore-fide to put in or draw out as occafion requires. The bottoms are made frelving, being higheft at the back fide, and gradually inclining forwards; by which means the faline liquor, which remains mixed with the falt, eafily drains from it; and the falt, in three or four days, becomes fufficiently dry; and is then taken out of the drabs, and laid up in large heaps, where it is ready for fale.

The faline liquor which drains from the falt is not a pure brine of common falt, but hath a fharp and bitter tafte, and is therefore called bitlern ; this liquor, at fome works, they fave for particular ufcs, at others throw away. A confiderable quantity of this bittern is left at the bottom of the pan after the procels is finifhed; which, as it contains much falt, they fuffer to remain in the pan, when it is filled up with fea-water. But at each procefs this liquor becomes more fharp and bitter, and alfo increafes in quantity: fo that, after the third or fourth procefs is finithed, they are obliged to take it out of the pan ; othervife it mixes in fuch quantities with the falt, as to give it a bitter tafte, and difpofes it to grow foft and run in the open air, and renders it unfit for domeflic ufes.

After each procefs there alfo adheres to the bottom and fides of the pan, a white ftony cruft, of the fame calcareous fubllance with that before collected from the boiling liquor. This the operators call /lone-fcratch, diflinguifhing the other found in the lead-pans by the name of powier fcratch. Once in eight or ten days they feparate the ftone-fcratch from their pans with iron picks, and in feveral places find it a quarter of an inch in thicknefs. If this flony cruft is fuffered to adhere to the pan much longer, it grows fo thick that the pan is burnt by the fire, and quickly wears ayray.

In M. de Pagés's Travels round the World, we find the following important fact. "I had been anxious (fays that author) to alcertain by comparifon, whether fea-water coniains falt in greater quantity under the torrid than under the other zones; and my experiments on this fubject ferved to fhow, contrary to what I expected, that fea-water is impregnated with falt in lefs quantity within than without the tropics." Thefe experiments were made on a hundred pounds of fea-water, taken at the depth of ten fathoms, and weighed in wa-ter-fcales. M. de Pagés has given a table of thefe experiments, from which it appears that 100 lb . of fea-water in $46^{\circ} 12^{\prime \prime}$ S. lat. gave $4^{\frac{1}{2}} \mathrm{lb}$. of falt, and in $1^{\circ} 16^{\prime \prime}$ only $3 \frac{1}{2} \mathrm{lb}$. ; and that in 74 N . lat. it gave $4^{\frac{3}{4}} \mathrm{lb}$. and in $4^{\circ} 22^{\prime}$ only $3^{\frac{1}{2}} \mathrm{lb}$. thefe being the higheft and loweft latitudes in which the experiments were made, and allo the greaieft and leaft quantities of falt.

Duty on SALT, is a diftinct branch of his majefty's extraordinary revenue, and confifts in an excife of $3^{\text {s. }}$ 4d. per buhthel impofed upon all falt, by feveral ftatutes of King William and other fubfequent reigns. This is not generally called an excife, becaufe under the management of different commiffioners: but the commiffioners of the falt-duties have, by ftatute 1 Ann, c. 21. the fame powers, and muft oblerve the fame regulations, as thofe of other excifes. This tax had ufually been only temporary: but by ftatute 26 Geo. II. c. 3 . was made perpetual.

SALTS, effects of in producing great degrees of cold. In the account of the remarkable effects of frigorific mixtures, in which faline bodies act fo important a part, given in our article Chemistry, fome errors had crept in. Thefe errors through the liberal attention of Mr Walker of Oxford, whofe refearches on this fubject have been carried farther than any other chemift, we are enabled to correct by laying bcfore our readers the following tables, moft obligingly communicated to us by that gentleman.



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- "in.25.



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Fig. 31.


Fig. 46.


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\text { Fig. } 47 \text {. }
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Fig. 33.


Fio. 34.


Fi.7. 35.


Fi.q. 36.


Fig. 3 \%. Norh/

Fig.4;





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TABLES, exhibiting a collective View of all the Frigorific Mixtures contained in Mr Waker's Publication, 1808.

TABLE I.-_This Table confils of Frigorific Mixtures, having the power of generating or creating cold, without the aid of ice, fufficient for all ufeful and philofophical purpofes, in any part of the world, at any featon.

Frigorific Mixtures, without ice.

| Mixtures. |  | Thermometer finks. | Degr. of cold produced. |
| :---: | :---: | :---: | :---: |
| Muriate of ammonia <br> Nitrate of potah Water | $\begin{aligned} & 5 \text { parts } \\ & 5 \\ & 5 \end{aligned}$ | From $+50^{\circ}$ to $+10^{\circ}$. | 40 |
| Muriate of ammonia Nitrate of potalh Sulphate of foda Water | $\begin{aligned} & 5 \text { parts } \\ & 5 \\ & 8 \\ & 16 \end{aligned}$ | From $+50^{\circ}$ to $+4^{\circ}$. | 46 |
| Nitrate of ammonia Water | $\begin{aligned} & \text { I part } \\ & 1 \end{aligned}$ | From $+50^{\circ}$ to $+4^{\circ}$. | 46 |
| Nitrate of ammonia Carbonate of foda Water | I part | From $+50^{\circ}$ to $-7^{\circ}$. | 57 |
| Sulphate of foda Diluted nitric acid | $3_{2}^{3 \text { parts }}$ | From $+50^{\circ}$ to $-3^{\circ}$. | 53 |
| Sulphate of foda <br> Muriate of ammonia <br> Nitrate of potalh <br> Diluted nitric acid | $\begin{aligned} & 6 \text { parts } \\ & 4 \\ & 2 \\ & 4 \end{aligned}$ | From $+50^{\circ}$ to $-10^{\circ}$. | 60 |
| Sulphate of foda <br> Nitrate of ammonia <br> Diluted nitric acid | $\begin{aligned} & 6 \text { parts } \\ & 5 \\ & 4 \end{aligned}$ | From $+50^{\circ}$ to - $4^{4}$. | 6. |
| Phofphate of foda Diluted nitric acid | $9_{4}^{9 \text { parts }}$ | From $+50^{\circ}$ to $-12^{\circ}$. | 62 |
| Phofphate of foda <br> Nitrate of ammonia <br> Diluted nitric acid | $\begin{aligned} & 9 \text { parts } \\ & 6 \\ & \hline \end{aligned}$ | From $+50^{\circ}$ to $-21^{\circ}$. | 71 |
| Sulphate of foda Muriatic acid | $\begin{aligned} & 8 \text { parts } \\ & 5 \end{aligned}$ | From $+50^{\circ}$ to $0^{\circ}$. | 50 |
| Sulphate of foda <br> Diluted fulphuric acid | $\begin{aligned} & 5 \text { parts } \\ & 4 \end{aligned}$ | From $+50^{\circ}$ to $+3^{\circ}$. | 47 |

N. B. If the materials are mixed at a warmer temperature, than that expreffed in the table, the effice will be proportionably greater ; thus, if the moft powerful of thefe mixtures be made, when the air is $+85^{\circ}$, it will fink the thermometer to $+2^{\circ}$.

TABLE II.
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Salt.
TABLE II. -This Table confits of Frigorific Mixtures, compered of ice, with chemical falls and acids.
Frigorific Mixtures, wert Ice.

N. B. The reason for the omifions in the lat column of this table, is, the thermometer finking in there mixture to the degree mentioned in the preceding column, and never lower, whatever may be the temperature of the matrials at mixing.

TABLE III. - This Table confifts of Frigorific Mixtures felected from the foregoing tables, and combincd, to as to Saling. increafe or extend cold to the extremelt degrees.

Combinations of Frigorific Mixtures.

| Mixiures. |  | Thermometer firks | Degr. of cold |
| :---: | :---: | :---: | :---: |
| Pholphate of foda Nitrate of ammonia Diluted nitric acid | $\begin{aligned} & 5 \text { parts } \\ & 3 \\ & 4 \end{aligned}$ | From $0^{\circ}$ to - $34^{\circ}$ | 34 |
| Phorphate of foda <br> Nitrate of ammonia <br> Diluted mixed acids | $\begin{aligned} & 3_{2} \text { parts } \\ & 4 \end{aligned}$ | From $-34^{\circ}$ to - $50^{\circ}$ | 16 |
| Snow <br> Diluied nitric acid | $3_{2}^{3} \text { parts }$ | From $0^{\circ}$ to - $46^{\circ}$ | 46 |
| Snow <br> Diluted fulphuric acid Diluted nitric acid | $\left.\begin{array}{l} 8 \text { parts } \\ 3 \\ 3 \end{array}\right\}$ | From - $10^{\circ}$ to - $56^{\circ}$ | 46 |
| Snow <br> Diluted fulphuric acid | $\begin{aligned} & I^{\text {part }} \end{aligned}$ | From $-20^{\circ}$ ta - $60^{\circ}$ | 40 |
| Snow <br> Muriate of lime | $\begin{aligned} & 3 \text { parts } \\ & 4 \end{aligned}$ | From $+20^{\circ}$ to $-48^{\circ}$ | 68 |
| Snow <br> Muriate of lime | $\begin{aligned} & 3 \text { parts } \\ & 4 \end{aligned}$ | From $+10^{\circ}$ to $-54^{\circ}$ | 64 |
| Snow <br> Muriate of lime | $2_{3}^{2 \text { parts }}$ | From - ${ }^{\text {c }} 5^{\circ}$ to - $68^{\circ}$ | 53 |
| Snow <br> Chryft. muriate of lime. | ${ }_{2}^{1} \text { part }$ | From $0^{\circ}$ to - $66^{\circ}$ | 66 |
| Snow <br> Chryft. muriate of lime | $\begin{aligned} & \text { I part } \\ & 3 \text { parts } \end{aligned}$ | From - $40^{\circ}$ to - $73^{\circ}$ | 33 |
| Snow <br> Dilated fulphuric acid | $\begin{aligned} & 3 \text { parts } \\ & \mathrm{ro}^{2} \end{aligned}$ | Frors - $68{ }^{\circ}$ to -91 | 23 |

N. B. The materials in the firt column are to be cooled, previouly to mixing, to the temperature requited, by mistures taken from either of the preceding tables.

Triple SALTS, a kind of falts formed by the union of three ingredients; the common neutrals being compofed only of two, as for inflance, common alum, which is compofed of fulphuric acid, alumina, and potafh.
Salt-Mines. See Salt.
Rock Salt. See Sait.
Salt-lfater, or Sea water, Difillation of. See SE.1if ater.
Neutral SALTs. See Chemistry, palfim.
SALT-Springs. Of thefc there are great numbers in different parts of the world, which undoubtedly have their origin from frime of the large callections of foffil falt mentioned under the article Common SALT. Sce that article, and likewife Spring.

SALTIER, one of the honourable ordinaries.-Sce

## Heraldry.

This, fays G. Leigh, in his Accedence of Arms, p. 70. was anciontly made of the height of a man, and driven full of pins, the ufe of which was to feale walls, \&ec. Upte: fays it was an inftrument to catch wild beafls, whence he derives this word from foltus, i. e. a forett." The Trench call this ordinary foutoir, from fauter " to leap ;" becaufe it may have been ufed by foldiers to leap over walls of towns, which in former times were but lon: ; but fome modern authors think it is borne in imitation of St Andrew's crofs.

SALTING heat for the uef. of tae kivy. The following is the method recommended by the bate Admiral

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Satting, Admiral Sir Cliarles Knowles. Whan the ox is killed, Saltperre. let it be Ekinned and cut up i:to pieces fit for ufe as quick as poffible, and filted while the meat is hot. For shich purpofe we muft have a fufficient quantity of faltpetre and bay-falt pounded trgether and made hot in an oven, of each equal parts; with this fprinkle the meat at the rate of about two ounces to the pound ; then lay the pieces on Thelvirig boards to drain for 24 hours; which done, turn them and repeat the fame operation, and let them lie for 2.4 hours longer. By this time the falt will be all melted, and have penetrated the meat, and the piece be drained off ; each piece muft then be wiped dry with clean coarfe cloths. A fufficient quantity of common falt mult then be made hot likewife in an oven, and mixed when taken out with about one third of brown fugar ; then the cakss being ready, rub each piece well with this mixture, and pack them well down, allowing about half a pound of the falt and fugar to each pound of meat, and it will keep good feveral years.

It is beft to proportion the cafks to the quantity ufed at one time, as the lefs it is expofed to the air the better. The fame procefs does for pork, otly a larger quantity of falt and lefs fugar muft be ufed; but the prefervation of both depends equally upon the meat being hot when firft falted.
One pound of beef requires two ounces of faltpetre and two ounces of bay-falt, becaufe it is to be fprinkled twice; an ounce of each to a pound of beef both times. The faltpetre requifite for 100 lb . of beef is $12 \frac{1}{2} \mathrm{l} \mathrm{l}$. which at 12 d . per 1 b . is 12 s .6 d .; and the fame quantity of bay-falt (for 100 lb . of beef), at three half.pence per 1b. is Is. 6d.; of brown fugar and common falt mixed together half a pound is required, the former in the propottion of one third, the latter of two thirds, to a pound of beef. The mown fugar at 8 d . per pound. A hundred pounds of beef will take 250 ounces of it, which cofts ros. 5 d . The quantity of common falt requifite for roolb. of beef is $\$ 33$ ounces, which at 2d. per 1 lb . amounts to 5 s . 6 d . The expence therefore will ftand thus.


Thefe arlicles are taken high; and if beef colts 6 d . per pound, meat cured thus will coft lefs than 1s. per pound; and therefore comes much cheaper than live-ftock in long fea vovares.

SALTPETRE, or Nitre, (nitrate of potafo), a compound of nitric acid and potafh. See Potash, Chei istry Index. The importance of this falt in various manufactures renders every information relative to its nroduation valuable. The following method has been long practifed hy the farmers of Appenzell in Switzerland. In fo hilly a country, moft houfes and ftables are built on flopes, one fide of the edifice refting on the hill, and the other being fupported by two f:ong pofts, elevated two or three feet above the
ground; fo th $t$ the air has a free current under the Saitpetue. building. Immediately under the fable a pit is dug, ufually occupying both in breadth and length the whole fpace of ground covered by the building; and inftead of the clayey earth which is dug out, the pit is filled up with fandy foil. This is the whole procels, and all the reft is done by nature. The animal water, which is continually oozing through the planks of the floor, having drenched the earth contained in the pit for the fpace of two or three years, the latier is emptied, and the faltpetre is refined and prepared in the ufual manner.

That manner, bowever, is not the beft ; and the French chemifts, during the incelliant wars occafioned by the revolution, have, for the fake of fupplying their armies with gunpowder, turned their attention to the beft method of refining faltpetre. The following are dircetions given for this purpofe by Chaptal, Champy, and Bonjour.

The crude faltpetre is to be beaten fmall with mallets, in order that the water may more eafily attack every part of the mafs. The faltpetre is then to be put into tubs, five or fix hundred pounds in each tub. Twenty per cent. of water is to be poured into each tub, and the mixture well stirred. It muft be left to macerate or digeft until the fpecific gravity of the fuid ceafes to augment. Six or leren hours are fufficient for this firft operation, and the water acquires the denfity of between 25 and 35 degrees. (Sp. gr. 1.21, and 1.306, afcertained by Baumé's hydrometer.

The firf water mult then be poured off, and a fecond portion of water muft be poured on the fame faltpetre amounting to 10 per cent.; after which the mixture muft be flirred up, fuffered to macerate for one hour, and the fluid drawn or poured off.

Five per cent. of water mult then be poured on the faltpetre; and after fkirring the whole, the fluid mult be immediately drawn off.

Wbeal the water is drained from the faltpetre, the falt muft be thrown into a boiler containing 50 per cent. of boiling water. When the folution is made, it will mark between 66 and 68 degrees of the hydrometer. (Sp. gr. 1. $8 \not{ }^{8}$, and 1.898 .)
The folution is to be poured into a proper veffel, where it depofits by cooling about two-thirds of the faltpetre originally taken. The precipitation begins in about half an hour, and terminates in between four aud fix hours. But as it is of importance to obtain the faltpetre in fmall needles, becaufe in this form it is more eafily dried, it is neceffary to agitate the fluid during the whole time of the cryftallization. A flight motion is communicated to this liquid mafs by a kind of rake; in confequence of which the cryftals are depofited in very flender necdles.

In proportion as the cryftals fall down, they are feraped to the borders of the veffel, whence they are taken with a fkimmer, and thrown to drain in baikets placed on trefiels, in fuch a manner that the water which paffes through may either fall into the cryfallizing veffel, or be rcceived in bafons underneath.

The faltpetre is afferwards put into wooden veffels in the form of a mill-hopper or inverted pyramid with a double bottom. The upper bottom is placed two inches above the lower on wooden ledges, and has many frall perforations through which water may pafs to

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Saltpetre. the lower bottom, which likewife affor's a paffage by one fingle aperture. A refervoir is placed beneath. The cryftallized faltpetre is wafhed in thefe veffels with 5 per cent. of water; which water is afterwards empluyed in the folution of faltpetre in fubfequent operations.

The faltpetre, after fufficient draining, and being dried by expofure to the air upon tables for feveral hours, may then be employed in the manufacture of gunporder.

But when it is required to ufe the faltpetre in the fpeedy and immediate manufacture of gunpowder, it mult be dried much more flrongly. This may be effefted in a fove, or more fimply by heating it in a flat metallic veffel. For this purpofe the faltpetre is to be put into the veffel to the depth of five or fix inches, and heated to 40 or 50 degrees of the thermometer (or about ${ }^{1} 35^{\circ}$ of Fahrenheit). The faltpetre is to be flirred for two or three hours, and dried fo much that, when Atrongly preffed in the hand, it thall acquire mo confiftence, nor adhere together, but refemble a very fine dry fand. This degree of drynefs is not required when the powder is made by pounding.
From thefe circumftances, we find that two faline liquids remain after the operation; (1) the water from the wafhing; and (2) that from the cryftallizing veffels.
We have already remarked, that the wahing of the faltpetre is performed in three fuccelfive operations, in which, upon the whole, the quantity of fluid made ufe of amounts to 35 per cent. of the weight of the crude faltpetre. Thefe waffings are eftablibed on the principle, that cold water diffolves the muriates of fodr, and the earthy nitrates and muriates, together with the colouring principle, but fcarcely attacks the nitrate of potafh.

The water of thefe three wahings therefore contains the muriate of foda, the earthy falts, the colouring principle, and a fmall quan:ity of nitrate of potafl; the amount of which is in promortion to that of the murinte of foda, which determines its folution. The water of the cryfallizing veffels contains a portion of the muriztes of fuda, and of the earthy falts which efcaped the operation of wafhing, and a qquantity of nitrate of rotafh, which is more confiderable than that of the former folution. The waters made ule of at the end of the operation, to whiten and wafh the cryftals depofited in the pyramidal veffel, contain nothing but a fmall quantily of itrate of potafh. Thefe waters are therefore very dififerent in their nature. The water of the waftings is really a mother water. It muft be collected in veffels, and treated with potalh by the known procefles. It mult be eva orated to 66 degrees (or $\mathrm{t}, 848 \mathrm{fp}$. gr.), taking out the muriate of foda as it falls. This folution is to be faturated with 2 or 3 per cent. of potafh, then fuffred to fetthe, decanted, and poured into cryftalizing verts, where 20 per ce it. of water is to be added to keep the whole of the muriate of foda fufpended.

The waters which are thuts obtained by treatment of the mother water may be mixed with the water of the firft cryftallization. Fo m thefe the marine falt may be feparated by fimf'e evenctition; and the nitrate of potifh, which they hold in folutin, may be afterwards obtained by cooling. The fmall quansity of "N"cer sale ufe of to wath and whiten the refined fald, ert Vol. XYIII. Part II.
contains nothing but the nitrate of potafh : it may there- Saitpetre, fore be ufed in the folution of the faltpetre when taken Salifburs. from the tubs.
From this defcription it follows, that a manufactory for the fpeedy refining of faltpetre ought to be provided with mallets or rammers for pounding the filtpetre; tubs for walhing; a boiler for folution; a cryflallizing vefiel of copper or lead, in which the faltpetre is to be obtained by couling; baßkets for draining the faltpetre; feales and weights for weighing; hydrometers and thermometers, to afcertain denfities and tempetatures ; rakes to agitate the liquor in the cry, itallizing velfel; \&immers to take out the cryftals, and convey them to the bafkets; fyphons or hand-pumps to empty the boilers. The number and dimenfiun of thefe feveral articles muft vary according to the quan'ity of faltpetre intended to be refined.

SALTSBURG, an archbifhopric of Germany, in the circle of Bavaria, bounded on the eaft by Stiriz and the Upper Auilria, on the weft by the county of Tyrol, on the north by the duchy of Bavaria, and on the fouth by the duchy of Carinthia and the bilhopric of Brixen. It is laid to be about 100 miles from ealt to weft, and upwards of 60 from north to fouth. With refpect to the foil, it is very mountainous, yielding, however, excellent pafturage, and, in coniequence of that, abounding in cattle, and horfes remarkable for their mettle and hardines. This country is perricularly noted for the great quantities of falt it produces, and its ftrong paffes and caftes. Here are alfo confiderable mines of filver, copper, lead, iron, and lapis caliominaris, with quarries of marble, and a natural hot-bath. The principal rivers are the Salza, the Inn , the Lne, and Muer ; which, as well as the lakes and other itream;, are well flored with fifl. The peafants here are all allowed the ufe of arms, and trained to military daty. There are no nobles in the coantry, and moft of the lands belong to the elergy. The itates confilt of the prelates, the cities, and towns. Notwithfanding this country is under the power of a Popith ecclefialtic, and the violent, arbitrary, and oppreffive ma ner in which the Proteftants have always been treated, great numbers of them fill remained in it till the year 1732 , when no lefs that 30,000 of them withdrew from it, difperfing themfelves in the feveral Proteltant Atates of Europe, and fome of them were even fent from Great Britain to the American colonies. Befides brafs and flcel wares, and all forts of arms and artillery, there are manufactures of coarfe cloth and linen here. The arclibilhop has man y and great prerogatives: he is a prince of the empire, and perpetual legnte of the holy fee in Germany, of which he is alfo primate. He has the firtt voice in the diet of this circle, and next to the electors in thet of the empr. in the college of princes, in which he a d the archcule of Iuftia prefide by turac. No appe il 'ee from him either in civil or ecclefiallical caufe:, but to the pope alone: and he is entititd to wear the labit of a cardimal. Iie has alfo the nomination to: veral bith aprics; and the connnicates that fall vacant in the moonth in wish the popes, by virtue of the cincordat, are allw... to nomi ate, are all in his gift. H's fuffrap ic : re : e bilhops of Freyfingen, lhativon, Brixt t, Gank, Chiemfee, Seckan, ond Larmt ; and of thefe, the foar lant are nomiuated, and eren conf med by tian and -. by the pepe. At the bit of the em$\therefore 0$
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 pire, his envoy takes place of all the princes that are prefent, under the degree of an elector. His revenue is faid to amount to near 200,0001. a-year, a great part of it arifing from the falt-works. He is able to raife 25,000 men; but keeps in conflant pay, beifdes his guaids, only one regiment, conffifing of 1000 men. His court is very magnificent; and he has his hereditary great officers, and bigh colleges. The chapter confifis of 24 canons, who muft be all noble, but are obliged only to four months refidence. At his acceffion to the fee, tue archoilhop muit pay 100,000 crowns to Rome for the pall. There is an order ot knighthoed herc, inftitued in 1711, in honour of St Rupert, who was the firl biflop of Saltfourg, about the beginning of the 8 th century.Saltsburg, the capital of a German archbifhoprie of the fame name, and which tahes its own from the river Salza, on which it flands, and over which it has a bridge. It is a very handfome place, well fortified, and the refidence of the archbifhop. The houles are high, and all built of fone: the roofs are in the Italian taite, and you may walk upon thein. The cafle here is very ftrong, and as ftrongly garrifoned, and well provided with provifions and warlike itores. The archbiftop's palace is magnificent; and in the area before it is a fountain, efteemed the largeft and grandef in Germany. The flables are very lofity; and the number of the horfes ufually kept by the archbithop is faid to be upwards of 273 . The city, of which one part ftands on u fleep rock, is well built, but the flrcets are narrow and badly paved. Belides the above mentioned, there are iwo other fately palaces belonging to the archbiniop, one of which is called the Nuebau, and the other Mirabella. The latter of thefe has a very beautiful garden; and the number of trees in the orangery is fo great, that MIr Keyller tells us, 20,000 oranges have been gathered from them in one year. The river Salza runs clofe by the walls of this garden. There are a great many other fine ftrutures in the city, public and private, fuch as palaces, monafteries, hofpitals, and churches. In the cathedral dedicated to St Rupert (the apoftie of Bavaria, and a Scotchnan by birth), all the altars are of marble of different kinds, and one of the organs has above 3200 pipes. The whole ftructure is extremely bandfome. It is built of freeflone in imitation of $\mathrm{St} \mathrm{Pe}-$ ter's at Rome. The portico is of marble, and the whole is covered with copper. Before the portico there is a large quadrangular place, with arches and galleries, in which is the prince's refidence; and in the middle of this place there is a flatue of the Virgin in brenze - it is a fine piece of art, bat of an unnatural fize. There are large areas encompaffid with hand me tuilding: on buth fides of the church. In the middle of that which is to the left, there is a mofl magnificent fountain of marble, and fome valuable figures of gifantic fize. There is likewife a fountain in that to the right, but it is not to be compared with the formes one, and the Neptune of it makes but a $v=1 / \mathrm{l}$ figure. Tl is town contains many more exctil ani. bings and Co wes, which remind one that the why of Italy are not far difant. The winter ard 1 an iding fchools here are noble ftructures. Tlie $3+\cdots$ ty was founded in 1620 , wid committed to the c e col the Cenedictines. Befides it, there are two co is , in

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which the yourg noblemen are educated. E. Long. $3 \hat{3}$. Saivadu:a o. N. Lat. 47.45 .

SALVADORA, a senus of plants belonging to the tetrandria ciafs; and in the naturai method ranking with thofe of which the order is doubtful. See Botary Index.

SALVAGE-moNEY, a reward allowed by the civil and Atatute law for the faving of flips or goods from the danger of the fea? pirates, or enemics. - Where any hip is in danger of being flranded, or driven on fhore, juftices of the peace are to command the conflables to affemble as many perfons as are neceffary to preferve it ; and, on its being preferved by thrir means, the perfons affifting therein thall, in 30 days after, be paid a reafonable reward for their falvage; otherwife the hip or goods thall remain in the cuftody of the officers of the cuftoms as a fecurity for the fame.

SALVATION, means the fafety or prefervation of any thing which is or has been in danger, and is generally uied in a religious fenfe, when it means prefervation from eternal death, or reception to the bappinefs of heaven, which is now offered to all men by the Chriftian religion upon certain conditions. The Hebrews but rarely makie ufe of concrete terms as they are called, but often of abflracted. Thus, inftead of faying that God faves them and protects them, they fay that God is their falvation. Thus the word of falvation, the joy of falvation, the rock of falvation, the fhield of falvation, the horn of falvation, \&c. is as much as to fay, The word that declares deliverance ; the joy that attends the efcaping a great danger, a rock where any one takes refuge, and where he may be in fafety from his encroy; a buckler, that fecures him from the anm of the enemy; a horn or ray of light, of happinefs and faltation, \&c. Sce Theology, \&ic.

SALVator rosa. See Rosa.
SALVE regina, among the Romanifts, the name of a Latin prayer, addreffed to the Virgin, and fung after complines, as alfo $u_{i}$ wn the point of executing a criminal. Durandus fays, it was compofed by Peter bihop of Compoftella. The cuftom of finging the falve regina at the clofe of the office was begun by order of St Duminic, and fritt in the congregation of Dominicans at Bulogna, about 123\%. Gregory IX. fint appointed it to be general. St Bernard added the conclufion, O dulcis! O pia, \&cc.

SALVIA, SAGE, a genus of plants belonging to the digynia clafs; and in the natural method ranking under the 42 d order, Verticillata. See Botany Inde.:

SALVIANUS, an ancient father of the Chrifian church, who flourifhed in the 5 th century, and was well ikilled in the fciences. It is faid he lived in continence with his wife Palladia, as if the hed been his fifter; and that he was fonflicted at the wickedncif of that age, that he was called the Jeremiah of the fiftli century. He acquired fuch rcputation for his piety and learning, that he was named the mafor of the biflops. He wrote a Treatife on Providence; another on Avarice; and fome epilles, of which Paluze has given an excellent edition; that of Conrad Ritterfhufus, in 2 vels oetavo, is alfo ctteemed.

SAIUTATION, the act of faluting, sreeting, or paying refpect and reverence to any one.
When men (writes the sompiler of LiEfprit, des

Saluation. Uyidges et des Coutumes) falute each other in an amicable manner, it fignifies little whether they move a particular part of the body, or practife a particular ceretwony. In thefe actions there mutl exilt different cuftoms. Every nation imagines it employs the mof reafonable ones; but all are equally fimple, and none are to be treated as ridiculous. This infinite number ot ceremonies may be reduced to two kinds; to reverences or falutations ; and to the touch of fome part of the human body. To bend and prottrate one's felf to exprefs fentiments of relizet, appears to be a natural motion; for terrified perfons throw themfelves on the earth when they adore invifible beings. The affetionate touch of the perfon they falute, is an exprefion of tendernefs. As nations decline from their ancient fimplicity, much farce and grimace are introduced. Superitition, the manners of a people, and their fituation, influence the modes of falutation; as may be obferved from the inflances we collect.

Modes of falutation have fometimes very different sbaracters, and it is no uninterefting feculution to examine their fhades. Many difplay a refinement of delicacy, while others are remarkable for their fimplicity, or for their fenfibility. In general, however, they are frequently the fame in the infancy of nations, and in more polihed focieties. Refpect, humility, fear, and efteem, are exprefled much in a fimilar manner; for thefe are the natural confequences of the organization of the body. Thefe demonfirations become, in time, only empty civilities, which fignify nothing; we diall notice what they were originally, without reflecting on what they are.

The firf nations have no peculiar modes of falutation ; they know no reverences, or other compliments, or they defpile and difdain them. The Greenlanders laugh when they fee an European uncover his head and bend his body before him whom he calls his fuperior. The iflanders, near the Philippines, take the hand or foot of him they falute, and with it they gently sub their face. The Laplanders apply their nofe ftrongly againt that of the perfon they falute. Dampier fays, that at New Guinea they are fatisfied in placing on their heads the leaves of trees, which have ever pafied for fymbols of friendhip and peace. This is at leaft a picturefque falute.

Other falutations are very incommodious and painful; it requires great practice to enable a man to be polite in an ifland fituated in the fraits of Sunda. Houtman tells us, they faluted him in this odd way: "They railed his left foot, which they paffed gently over the right leg, and from thence over his face." The inhabitants of the Philippines bend their body very low, in placing their hands on their cheeks, and raifing at the fame time one foot in the air, with their knee bent. An Ethiopian takes the robe of another, and ties it about his own waift, fo that he leaves his friend half naked. This cultom of undrefling on thefe occafions takes other forms; fometimes men place themfelves naked before the perfon whom they falute; it is to fhow their humility, and that they are unworthy of appearing in his prefence. This was practifed before Sir Jofeph Banks, when he received the vifit of two female Otaheitans. Their innocent fimplicity, no doubt, did not appear immodeft in the eyes of the virtuofo. Sometimes they only undrefs partially. The Japanefe only take off
a lipper ; the peoph of Artacs:, their landals in the Salnen ftrcet, and thecir Ito.kings in the houfe.

In the progrefs of time, it appears fervile to uncover one's felf. The grandees of Spain claim the right of appeaing covered before the king, to flow that they are not fo much furjected to him as the relt of the nation ; and (this writer obferves) we may remark, that the Englith do not uncover thrir heads fo much as the o:her nations of Europe. In a word, there is not a nation (olferves the humorous Montaigne), even to the people who, when they falute, turn their backs on their frictids, but that can be juftified in their celloms. It mult be obferved of the negrees, that they are lovers of ludicrous actions, and thus mike :il their cercmo ies farcical. The greater part pull the fargers till they crack. Snelgrave gives an odd reprefatation of the embafly which the king of Dahomy fent to him. The ceremonies of falutation comsited in the moft ridiculous contortions. Wiben tho negro nionarel s vifit, they embrace in frapping three times the niddie finger.

Batharets nations frequently imprint on their falutations the dilpofitions of their charalcer. When the inhabitants of Cavmena (fays Itherexus) would fhow a peculiar mark of efteem, they breathed a vein, and preitated for the beverage of their friend the blood as it iflued. The Franks tore hair from their head, and prefented it to the perfon they faluted. The flave cut off his hair, and offered it to his maficr. The Cl incfe are fingularly affeded in their perfonal civitities: they even calculate the number of their re-ereices. Thede are their moft remarlable pottures. The min move their hands in an affectionate manner, while they are joined together on the Lreaft, and buw their head a little. If they refpect a perfor, they raile their hancs joined, and then lower then to the carth in ber ding the budy. If two feifons meet after a forg feparati n, they both fail on their knees, and bend the face to the carth, and this ceremony they repeat two or three times. Surely we may differ here with the fentiment of MIontaigne, and confefs this ceremony to be ridiculous. It arifes from their national affectation. They fubnitute artificial ceremonies for natural aetions. Their expreffions mean as little as their ceremonies. If a Chinefe is afked how he finds himfelf in health? he anfwers, Very well; thanks to your abundant felicity. If they would tell a man that he looks well, they lay, Profperity is painted on your face; or, Your air announces your happinj's. If you render them any fervice, thicy fay, Wity thanks /bould be immortal. If you praife them, they anfwer, How pall I dare to perfuade my falf of what you fay of me? If you dine with them, they tell you at parting, We have not treated you with fufficient dyfinction. The various titles they invent for each other it would be impoffible to tranflate.

It is to be obferved, that all thefe sufwers are prefcribed by the Chinefe ritual, or academy of compliments. There are determined the number of bows; the expreffions to be employed; the genuflections, and the inclinations which are to be made to the right or left hand ; the falutations of the mafter before the chair where the ftranger is to be feated, for he fulutes it mon profoundly, and wipes the duft away with the fkirts of his robe; all thefe and other things are noticed, even to the filent geftures, by which you are entreated to enter the houfe. The lower clafs of people are cqually

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Salutation, nice in thefe punctilios; and ambaffadors pafs 40 days Salute. in practifing them before they are enabled to appear at
court. A tribunal of ceremonies has been erected, and every day very odd decrees are iffued, to which the Chinefe moft religioufly fubmit.

The marks of honour are frequently arbitrary ; to be feated, with us, is a mark of repofe and familiarity; to fland up, that of refpect. There are countries, however, in which princes will only be addreffed by perfons who are feated, and it is confidered as a favour to be permitted to ftand in their prefence. This cuftom prevails in defpotic countries: a defpot cannot fuffer without difguft the elevated figure of his fubjects; he is plealed to bend their bodies with their genius: his prefence muft lay thofe who behold him proftrate on the earth : he defires no eagernefs, no attention; he would only infuire terror.

The pope makes no reverence to any mortal except the emperor, to whom he floops a very little when he permits him to kifs his lips.

SALUTE, in military matters, a difcharge of artillery, or fmall arms, or both, in honour of fome perfon of extraordinary quality. The cctours likewife falute royal perfons, and generals commanding in chief; which is done by lowering the point to the ground. In the field, when a regiment is to be reviewed by the king or his general, the drums beat a march as he paffes along the line, and the officers falute one another, bowing their half-pikes or fwords to the ground ; then recover and take off their hats. The enfigns falute all together, by lowering their colours.

Salute, in the navy, a teftimony of deference or homage rendered by the Thips of one nation to another, or by fhips of the fame nation to a fuperior or equal.

This ceremony is varioufly performed, according to the circumftances, rank, or fituation, of the parties. It confifts in firing a certain number of cannon, or volleys of fmall arms ; in friking the colours or top-fails; or in one or more general fhouts of the whole fhip's crew, mounted on the mafts or rigging for that purpofe.

The principal regulations with regard to falutes in the royal navy are as follow :
"When a flag.officer falutes the admiral and commander in chief of the fleet, he is to give him fifteen guns; but when captains falute him, they are to give him feventeen guns. The admiral and commander in chief of the fleet is to return two guns lefs to flag-officers, and four lefs to captains. Flag-officers faluting their fuperior or fenior officer, are to give him thirteen guns. Flag.officers are to return an equal number of guns to flag-officers bearing their flags on the fame maft, and two guns lefs to the reft, as allo to captains.
"When a caplain falutes an admiral of the white or blue, he is to give him fiffeen guns; but to vice and rear admirals, thirteen guns. When a flag officer is faluted by two or more of his majefty's fhips, he is not to return the falute till all hare finifhed, and then to do it with fuch a reafunable number of guns as he ftall judge pioper.
" In cafe of the meeting of two fquadrons, the two chiefs only are to excbange falutes. And if fingle fhins met a fquadron confating of more than one fiag, the princijal flag only is to be faluted. No falutes fiall be
repeated by the fame flips; unlefs there has been a feparation of fix months at leeft.
"None of his majefty's fhips of war, commanded only by captains, fhall give or receive falutes from one another, in whatfuever part of the world they meet.
" A flag officer commanding in chief thall be faluted, upon his firft boifting his flag, by all the fhips prefent, with fuch a number of guns as is allowed by the firf, third, or fifth articles.
"When any of bis majefty's fhips fhall meet with any thip or fhips belonging to any foreign prince or fate, within his majefty's feas (which extend to Cape Finifterre), it is expected, that the faid foreign fhips do frike their top-fail, and take in their flag, in acknowledgement of his majefty's fovereignty in thole feas: and if any fhall refufe or offer to refift, it is enjoined to all flag officers and commanders to ufe their utmofl endeavours to compel them thereto, and not fuffer any difhonour to be done to his majefty. And if any of his majefty's fubjects thall fo much forget their duty, as to omit llriking their top-fail in paffing by his majefty's flips, the name of the fhip and mafter, and from whence, and whither bound, together with affidavits of the fact, are to be fent up to the fecretary of the admiralty, in order to their being proceeded againft in the admiralty court. And it is to be obferved, that in his majefty's feas, his majefty's fhips are in nowife to ftrike to any; and that in other parts, no thip of his majefty's is to ftrike her flag or top-fail to any foreigner, unlefs fuch foreign fhip fhall have firf ftruck, or al the fame time ftrike, her flag or top-fail to his majefty's fhip.
"The flag-officers and commanders of bis majefly's fhips are to be careful to maintain his majefty's honour upon all occafions, giving protection to his fubjects, and endeavouring, what in them lies, to fecure and encourage them in their lawful commerce; and they are not to injure, in any manner, the fubjects of his majefty's friends and allies.
" If a foreign admiral meet with any of his majefly's fhips, and falutes them, he fhall receive gun for gun. If he be a vice-admiral, the admiral fhall anfwer with two guns lefs. If a rear-admiral, the admiral and vice-admiral fhall return two lefs. But if the fhip be commanded by a captain only, the flag.officer fhall give two guns lefs, and captains an equal number.
"When any of his majefty's thips come to an anchor in a foreign port or road, within cannon-fhot of its forts, the captain may falute the place with fuch a number of guns as have been cuftomary, upon good affurance of having the like number returned, but not otherwife. But if the fhip bears a flag, the flag-officer flall firf carefully inform himfelf how flags of like rank, belonging to other crowned heads, have given or returned falutes, and to infitt upon the fame terms of refpect.
" It is allowed to the commanders of his majefty"s fhips in foreign parts, to falute the perfons of any admirals, commanders in chief, or captains of thips of war of foreign nations, and foreign noblemen, or ftrangers of quality, as alfo the factories of the king's fubjects, coming on board to vifit the fhip; and the number of guns is left to the commander, as faall be fuitable to the occafion and the quality of the perfons vifiting; but he is neverthelefs to remain accountable for any cacclites in the abule of this liberty. If the flip vilited be in com-

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was born 683 years before Chrilt. His fcholars paid Samaneane him divine honours; and his doetrine, which confilted chiefly in the tranfnigration of fouls, and in the woramrcanc. thip of cows, was adopted not only in India, but alfo in Japan, China, Siam, and Tartary. It was propagated according to M. de Sainte Croix, in Thibet, in the 8 th century, and fucceeded there the ancient religion of Zamolxis. The Samaneans, or Buddits, were entirely deftroyed in India by the jeatous rage of the Bramins, whofe abfurd practices and fables they affected to treat with contempt ; but \{everal of their books are fill preferved and refpected on the coafts of Malabar.
We are told, too, that feveral of the Bramin orders have adopted their manner of living, and openly profe's the greateft part of their doctrines. L'Ezour Vedam, ou Ancien Comment'du Vedam, publifhed by N. de S. Croix, Paris 1779. See Bramins.

SAMAR, a Spanifh illand not far from Maniila in the Eaft Indies, is called Samar on the fide which looks towards the other ifles, and Ibabao on that next the Modern ocean. Its greateft length, from Cape Baliquaton, which, Univ. Hjjs. with the point of Manilla, makes the ftrait of St Ber-vol. viii. nardino, in 13 deg. 30 min . north latitude, extends to ${ }^{\text {p. } 157 .}$ that of Guignan in 11 deg. towards the fouth. The other two points, making the greatef breadth of the illand, are Cabo de Spirito Santo, or Caps of the Holy Ghof, the high mountains of which are the firt difcovered by fhips from New Spain; and that which lying oppofite to Leyte weftward, makes another itrait, icarce a ftone's throw over. The whole compals of the ifland is about 130 leagues. Betireen Guignan and Cape Spirito Santo is the port of Borognon, and not far from thence thofe of Palspa and Catubig, and the little ifland of Bin, and the coant of Catarman. Veffels from countries not yet difcovered are very frequently calt away on the before-mentioned coaft of Palapa. Within the ftraits of St Bernardino, and beyond Baliquaton, is the coaft of Samar, on which are the villages of Ibatan, Bangahon, Cathalogan, Paranos, and Calviga. Then follows the ffrait of St Juanillo, without which, flanding eaftward, appears the point and little ifland of Guignan, where the compafs of the illand ends. It is mountainous and craggy, but the fcw plains which it contains are very fertile. The fruits are much the fame as thote of Leyte; but there is one particular fort, called by the Srani ads clicoy, and by the Chinefe, who put a great value on it, fej $z u$, without kernels.

SAMARA, a genus of plants belonging to the tctrandria clafs. See Botany Indoo.

SAMARCAND, or Sarmacand, an anetent and famous town of Afia, capital of the kingdom of the fame name in the country of the Ufbeck Tartars, wilt a caftle and a famous univerfity. The houfes are built with ftones, and it carries on a trade in excellent fruits. It is pleafantly feated near the river Sogde, a branch of the Amu. E. Long. 69. O. N. Lat. 39. 50. This town was the capital of the kingdom of Sogdia in the time of Alexander the Great, whien it was called Maracanda. It was afterwards the cajital of the empire of Tamerlane the Great. In the time of Je ghiz Kian, it was forced to ield to the am:s of thit eucl conqueror; by whom the garri 3 , amounting to 30,00 inen, vere butchered : $32,2=$ of the inhabitants, with tleir wir s

Simma. and childrem. were prefented to his generals; the reft were permitted to live in the ci:y, on paying a tribute of 300,000 dinars or crowns of gold.

SAMARIA, in Ancient Geography, one of the three larger Cisjordan diftricts, fituated in the middle between Galilee to the north and Judea to the fouth, beginning at the village Ginæa, in the Campus Magnus, and endkig at the toparchy called Acrobatena (Jofephus). Its foil differing in nothing from that of Judra; both equally billy and champaign, both equally fertile in corn and fruit (ib.) Called the kingdom of Samaria in Ephraim (Bible); comprifing the ten tribes, and confequently sil the country to the north of Judea and eaft and welt of Jordan.

Samaria, the capital cily of the kingdom of Samarin, or of the ten tribes. It was built by Omri king of Ifrael, who began to reign in the year of the world §०79, and lied 3086 (I Kings xvi. 24.). He bought the hill Samatia of Sbemer for two talents of filver, or for the fum of $68{ }^{4} 1.7^{\text {s. }}$. 6 d . It took the name of Samaria from Shemer the owner of the hill; though fome think there were already fome beginnings of a city, becaufe, before the reign of Omri there is mention made of Samaria (I Kings xiii. 32.) in the year of the world $3 \supset 3 \circ$. But others take this for a prolepfis, or an anticipation, in the difcourfe of the man of God, who fpeaks of Samaria under the reign of Jeroboam.
However this be, it is certzin that Samaria was no confiderable place, and did not become the capital city of the kingdom of Ifract till after the reign of Omri. Before him, the kings of 1 fiael dwelt at Shechem, or Tirzah. Samaria was fituated upon an agreeable and fruitful hill, in an advantageous fituation, and was 12 miles from Dothaim, 12 from Merrem, and four from Atharoth. Jofephus fays, it was a day's journey from Jerufalem. Befides, though it was buitt upon an eminence, yet it muft have water in abundance; fince we find medals fruck in this city, whereon is repree:ented the goddefs Allarte treading a river under foot; which proves it to have been well watered. And Jofephius obfurves, that when it was taken by John Hircanus the prince of the Jews, he ertirely demolifhed it, and caufed even the brook to flow over its ruins, to obliterate all the footfteps of it.

The kings of Samaria omitted nothing to make this city the ftrongcit, the fineft, and the richelt, that was poffible. Ahab built there a palace of ivory (s Kings xxii. 39.), that is, in which there were many ornaments of ivory. Amos defcribes Samaria under Jeroboam II. as a city funk into all exceffes of luxury and effeminacy ( $A$ mos iii. 15 . and iv. 1, 2.).

Ben-hadad king of Syria built public places or ftrects in Samaria ( 1 Kings xx. 34.) prolably for traffic, where his people divelt to promote trade. His fon Benhadad befieged this place under the reign of Ahab ( 1 Kings xx. 1, 2, 3, \&c.) in the year of the world 3103.

The following year, Ben-hadad brought an army into the field, probably with a defign to march again? Samaria : but his army was again cut in picces. Some Years after this, Ben-hadad came a third time, lay down before Samaria, and redured it to fuch neceffitics by famine, that a nother was there forced to eat her own child; but the city was relicyed by a fenfible effect of the protection of God.

Laftly, it was befieged by Shalmanefer king of Any- S maria. ria, in the ninth year of Holhea king of Ifrael (2 Kings xvii. 6,7, \&ic.), which was the fourth of Hezeliah king of Judah. It was taken three years afier, in the year of the world 3283 . The prophet Hofea fipeaks of the cruelties exercifed by Shalmanefer againit the befieged (Hof. x. 4, 8, 9. xiv. 1.) ; and Micah fays, that this city was reduced to a heap of ftoncs (Mic. i. 6.). The Cuthites that were fent by Efar-haddon to inhaluit the country of Samaria, did not think it worth their while to repair the ruins of this city; they dwelt at Shechem, which they made the capital city of thcir flate. They were fill upon this footing when Alexander the Grent came into Phœnicia and Judea. However, the Cuthites had rebuilt fome of the houfes of Samaria, even from the time of the return from the captivity, fince Ezra then fpeaks of the inhabitants of Samaria (Ezıa iv. ${ }^{17}$. Nehem. iv. 2.) ; and that the Samaritans, being jealous of the favours that Alexander the Great had conferred on the lews, revolted from him while this prince was in Egypt, and burnt Andromachus alive, whom Alexander had left governor of Syria. Alcxander marched againft them, took Samaria, and put in Macedonians to inhabit it; giving the country round it to the Jews; and to encourage them to cultivate it,' he granted them an exemption from tribute. The king of Egypt and Syria, who fucceeded Alexander, deprived them of the property of this country.
But Alexander Balas king of Syria reftored to Jonathan Maccatraus the cities of Lydda, Ephrem, and hamatha, which he cut off from the country of Samaria (1 Mac. x. 30,38 , and xi. 28, 34.). Laftly, the Jews re-entered into the full poffefion of this whole country under John Hircanus the Afmonæan, who took Samaria, and ruined it in fuch a manner, according to Jofephus, that he made the river run through its ruins. It continued in this condition to the year of the world 3947, when Aulus Gabinius, the proconful of Syria, rebuilt it, and gave it the name of Gabiniana. But it was yet but very inconfiderable, till Herod the Great reffored it to its ancient luftre, and gave it the Greek name of Sebafe, which in Latin is Augufta, in tonour of the emperor Auguflus, who had given him the property of this place.

The facred authors of the New Teftament fpeak but little of Samaria ; and when they do mention it, it is rather in refpect of the country about it, than of the city itfelf. (See Luke xvii. 11. Jolnn iv. 4, 5.).-It was there our Lord had the converfation with the woman of Samaria, that is, with a Samaritan woman of the city of Sychar. After the death of St Stephen, (Acts viii. $1,2,3$.), when the difciples were difperfed through the cities of Judea and Samaria, St Pbilip the deacon withdrew into the city of Samaria, where he made feveral converts. When the apoftes heard that this city bad received the word of God, they fent Peter and John thither, to communicate the Holy Ghout to fich as had been baptized. It was there they found Simon Magus, who offered money to the apoflice, being in hopes to buy this power of communicating the Foly Ghoft. Sanaria is never called Schafte in the books of the New Tettament, though ftrangers hardly knew it but by this name. St Jerome fays, that it was thought Obadiah was buried at Samaria. They alfo fherred there the tembs of Eliha and of St John the Baptif. There are

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Samarita.us. found many ancient medals that were flruck at Sebafte, or Samaria, and fome bifhops of this city have fubforibed to the ancient councils.

SA.IIARITANS. WYe have already foken of the Samaritans uader the aticle Curn. The Samaritans are the people of the ciry of Samaria, and the inhabitants of the province of which Samaria was the capital city. In this fenf, it fhould feem that we might give the name of Samaritans to the Ifraelites of the ten trives, who lived in the city and tertitory of Samaria. However, the facted authors commonly give the name of Samarions only to thofe flrange people whom the kings of Affyria tent from bcyond the Eaphrates to inhabit the kingdorn of Samaria, when they took away captive the Ifraelites that were there before. Thus we may fix the epoch of the Smaritans at the taking of Samaria by Salmanefer, in the year of the world 3283 . This prince carried away captive the Iraelites that he found in the country, and affigned them dwellings beyond the Euphrates, and in Affyria, (2 Kings svii. 24.). He fent other inhabitants in their flead, of which the moft confiderable were the Cuthites, a people defcended from Cufh , and who ate probably of the number of thofe whom the ancients knew by the name of Scythians.
After Salmanefer, his fucceffor Efar-haddon was informed, that the people which had been Cent to Samaria were infefted by lions that devoured them, (2 Kings xvii. 25 .) ; this he imputed to the ignorance of the people in the manner of worlhipping the gad of the country. Wherefore Efar-haddon fent a prich of the God of Ifrael that he might teach them the religion ot the Hebrews. But they thought they might blend this religion with that which they profoled before; fo they continued to worthip their idols as befure, in conjunction with the God of lirael, not perceiving hom abfurd and iscompatible thefe two religions wete.

It is not known how long they continued in this fate ; bat at the return from the captivity of Baby!on, it appears they had entirely quitted the wounhp of their idols; and when they afked permiffion of the liraclites that they might labour with them at the rebuilding of the temple of Jerufalem, they affirmed, that from the time that Efar-haddon had brought them into this country they had always worfhipped the Lord, (Fizraiv. $3,2,3$. ). And indeed, after the return from the capLivity, the Scripture does not anywhere reproach them with idolatrous worfhip, though it does not diffemble either their jealonfy againtt the Jews, nor the ill offices they had done them at the court of Perfia, by their flanders and calumnies, or the flratagems they contrived to hinder the repairing of the walls of Jerufalem.(Nehem. ii. 10, 19. iv. 2, \&c. vi. 1, 2, \&c.)

It does not appear that there was any temple in Samaria, in common to all thefe people who came thither from beyond the Euphrates, before the coming of $\boldsymbol{A}$ lexander the Great into Judea. Before that time, every one was left to his own difcretion, and worlhipped the Lord where he thought fit. But they prefently comprehended, from the books of Mofes which they had in their hands, and from the example of the Jews their neighbours, that God was to be worfhipped in that place only which he had chofen. So that fiace thicy could not go to the temple of Jerufalem, which the Jews would not allow of, they bethought themfelves of building a
temple of their own lpea Mount Gerizin, near the city Samaritars. of Shecham, which was then their capital. 'Therefoie Sanbailat, the goverroor of the Samaritan, applicul h.m. felf to Alevander, and told him lie liad a tar-in-law, called Manalies, fon to diddus th higherriet of the Jews, who had retired to Sarestia with a kreit number of other perfons of his own uation; that he defired jo build a temple in this province, where he mightexercile the high-priefthood; that this uadertaking would be to the advantage of the king's affairs, becat: in building a temple in the province of Samaria, the nation of the Jews would be divided, who are a turbulent and feditious people, and by fuch a divifion would be made waker, and lefs in a condition to undertake new enterprifes.

Alexander readily confented to what Sanballat defired, and the Samaritans prefently begran their building of the temple of Gerizim, which from that time they have always frequented, and fill frequent to this day, as the place where the Lord intenced to receive the adoration of his people. It is if this mountain, and of this temple, that the Samari on woman of Sychar fpoke to our Saviour, (John iv. 20.). See G.iRIZIN.

The Samaritans did not long continue under the obedience of Alcxander. They reveltici from him the very next year, and Alexander drove them out of Samaria, pat Mfacedonians in their room, and gave the province of Samaria to the Jews. This preference tl at Alexander gave to the Ifraelites contributed not a little to increare that hatred and animofity that had already obtained between thefe-two people. When any Ifraclite had deferved punilhment for the violation of fome important poist of the law, he prefently touk refuge in Samaria or Shechem, and embraced the way of worfhip according to the tomple of Garizim. When the Jews were in a profpersus condiion, and affrits were favourable to them, the Samatitans did not fail to call themfelves I leurews, and prete ded to be of the race of Abraham. But no fooner were the Jers frllen into difcreçit or perfecution, but the Samaritans immed ately difowne it them, would have nothing in common with them, ackiowledged themfelves to be P' cenicians originally, or that they were defocnded ir m. Jofeph and Ma. raffeh h's fon. This ufed to be their practice in the time of Antiochus Eprphanes.

The S.maritane, having reccived the Pentateuch, or the five books of Mofes, from the prieft that was fent by Efar-haddon, have preferved it to this dy, in the fame language and character it was then, that is, in the old Hebrew or Phoenician charaEct, which we now call the Samaritan, to diflinguih it from the modern Hc . brew character, which at prefent we find in the bocks of the Jews. Thefe latt, after their captivity. changed theit old charachers, and took up thofe of the Chaldee, which they had been ufed to at Babylon, and which they continue ftill to ufe. It is wrong, fays F. Calnuet, to give this the name of the Ilebrew charaster, for that can be faid propelly orly of the Saniaritan text. The critics have taken notice of fome variations between the Pentateuch of the Jews and that of the Sommritans: but thefe varieties of reading chietly regard the word Gerizim, which the Samaritans feem to have purp Sely introduced to favour their pretenfions, that Mount Gerizim was the place in whish the Iord was to be

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$\underbrace{\text { s.matiane }}$ adured. The other various readings are of fmall importance.

The religion of this people was at firt the Panan. Every one worlhipped the deity they had been urad to in their own country ( 2 Kings xvii. $25,30,3^{1}$ ). The Babylonians worhipped Suca th-benoth; the Cuthites, Norgal; the Hamathites, Aftima; the Avites, Nibhaz and Tartak; the Sepharvites, Adrammelech and Anamnelech. If we would enumerate all the names of falfe gods to whom the Samaritans have paid a facrilegious worlhip, we flould have enough to do. This matter is fufficiently perplexed, by reafon of the different names by which they were adored by different nations, infomuch that it would be almoft impoffible to clear up this affair. See Succoth-beyoth, \&c. Afterwards, to this profane worhhip the Samaritans added that of the Lord, the God of Ifrael, ( 2 Kings xvii. 29, $30,31,32$.). They gave a proof of their little regard to this worhhip of the true God, when under Antiochus Epiplanes they confecrated their temple at Gerizim to Jupiter Argivus. In the time of Alexander the Great, they celebrated the fabbatical year, and confequently the year of jubilee alfo. We do not know whether they did it exactly at the fame time with the Jews, or whether they obferved any other epoch; and it is to little purpofe that fome critics have attempted to afcertain the firft beginning of it. Under the kings of Syria they followed the epoch of the Greeks, or that of the Seleucidæ, as other people did that were under the government of the Seleucidx. After that Herod had re-eftablifhed Samaria, and had given it the name of Sebafte, the inhabitants of this city, in their medals, and all public acts, took the date of this new eftablifhment. But the inhabitants of Samaria, of which the greater part were Pagans or Jews, were no rule to the other Samaritans, who probably reckoned their years according to the reigns of the emperors they were fubject to, till the time they fell under the jurifdiction of the Mahometans, under which they live at this day; and they reckon their year by the Hegira, or, as they fpeak, according to the reign of Ithmael, or the Thmaclites. Such of our readers as defire to be further acquainted with the hiftory of the ancient Samaritans, we refer to the works of Jofephus, where they will find that fubject largely treated of.

As to their belief, it is objected to them, that they receive only the Pentateuch, and reject all the other books of Scripture, chiefly the prophets, who have more exprefsly declared the coming of the Meffiah.-They have alfo been accufed of believing God to be corporeal, of denying the Holy Ghof, and the refurrection of the dead. Jefus Chrift reproaches them (John iv. 22 .) with worfhipping they know not what; and in the place already rcierred to the feems to exclude them from falvation, when he fays, that "Salvation is of the Jews." True it is, that thefe words might only fignify, that the Mefliah was to proceed from the Jews; but the crime of fchifin alone, and a feparation from the true church, was fufficient to exclute them from falvation. The Samaritan twoman is a fufficient teftimony that the Samaritans expected a Mefliah, who they hoped would clear up all their doubts (Jolin iv. 25.). Several of the inhabitants of Shechem believed at the reaching of Je us Chrift, and feveral of Samaria be-
lieved at that of St Philip; but it is faid, they foon fell Samaritans back to their former errors, being perverted by Simon Mactis,

The Samaritans at prefont are very few in number. Joferh Scaliger, being curious to know their ufages, wrote to thie Samaritans of Egypt, and to the high prieft of the whole fect who refided at Neapolis in Syria. They returned two anfwcrs to Scaliger, dated in the year of the Hegira 998. Thefe were preferved in the French King's library, and were tranflated into Latin by Father Morin, and printed in England in the collection of that father's letters, in 1682, under the title of Antigutates Ecclefice Orientalis. By thefe letters it appears, that they believe in God, in his fervant Mofes, the holy law, the mountain Gerizim, the houfe of God, the day of vengeance and of peace; that they value themfelves upon obferving the law of Mofes in many points more rigidly than the Jew's themfelves. They keep the fabbath with the utmoft frictnefs required by the law, without firring from the place they are in, but only to the fynagogue. They go not out of the city, and abfain from their wives on that day. They never delay circumcifion beyond the eighth day. They ftill facrifice to this day in the temple on Mount Gerizin, and give to the prieft what is enjoined by the law. They do not marry their own nicces, as the Jews do, nor do they allow themfelves a plurality of wives. Their hatred for the Jews may be feen through all the hiftory of Jofephus, and in feveral places of the New Teftament. 'The Jewifh hiftorian informs us, that under the govermment of Coponius, one paffover night, when they opened the gates of the temple, fome Samaritans had feattered the bones of dead men there, to infult the Jews, and to interrupt the devotion of the fefival. The evangelifts flew us, that the Jews and Samaritans held no correfpondence together (John iv: 9.) "The Jews have no dealings with the Samaritans." And the Samaritan woman of Sychar was much furprifed that Jefus talked with her, and alked drink of her, being a Samaritan. When our Saviour fent his apofles to preach in Judea, he forbade them to enter into the Samaritan cities, (Mat. x. 5.) ; becaufe he looked upon them as fchifmatics, and as Arangers to the covenant of Ifrael. One day when he fent his difciples to provide him a lodging in one of the cities of the Samaritans, they would not entertain him, becaufe they perceived he was going to Jerufalem. (Luke ix. 53. 53.) "Becaufe his face was as though he would go to derufalem." And when the Jews were provoked at the reproaches of Jefus Chrift, they told him he was a Samaritan (John viii. 48.), thinking they could fay nothing more fevere againft him. Jofephus relates, that fome Samaritons having killed feveral Jews as they were going to the feaft at Jerufalem, this eccafioned a kind of a war between them. The Samaritans continued their fealty to the Romans, when the Jews revolted from them; yet they did not efcape from being involved in fome of the calamities of their neighbours.

There are flill at this day fome Samaritans at Shechem, oilherwife called Naploufe. They have priefts there, Who fay they are of the family of Aaron. They have a high-prieft, who refides at Shechem, or at Gerizim, who offers facrifices there, and who declares the feaft of thic
paflover,

Sambucus, paffover, and all the other feafts, to ali the difperfed Samicis Samaritans. Some of them are to be found at Gaza, fome at Damafcus, and fome at Grand Cairo.

SAMBUCUS, ELDER, a genus of plants belonging to the pentandria clafs; and in the natural method ranking under the 43 d order, Dumofa. See Borany Index.

All the forts of elder are of the deciduous tribe, very hardy, and grow freely anywhere; are generally free fhooters, but particularly the common elder and varieties, which make remarkably frong, jointed thoots, of feveral feet in length, in one feafon; and they flower moltly in fummer, except the racemofe elder, which generally begins flowering in April ; and the branches being large, fpreading, and very abundant, are exceedingly conipicuous; but they emit a difagreeable odour. The llowers are fucceeded in moft of the forts by large bunches of ripe berries in autumn, which, although very unpalatable to eat, are in high eftimation for making that well known cordial liquor called elder wine, particularly the common black-berried elder. In gardening, the elder is both ufeful and ornamental, efpecially in extenfive grounds.

SAMIIAN EARTH, in the materia medica, the name of two fpecies of marl ufed in medicine, viz. 1. The white kind, called by the ancients collyrium faminm, being aftringent, and therefore good in diarrhœas, dyfenteries, and hæmorrbagies; they alfo ufed it externally in inflammations of all kinds. 2. The brownith white kind, called afler famius by Diofcorides; this alfo ftands recommended as an aftringent.

SAMIELS, the Arabian name of a hot wind peculiar to the defert of Arabia. It blows over the defert in the months of July and Auguft from the north-weft England to to India in 1754. 0 to the very gates of Bagdad, but never affects any body within the walls. Some years it does not blow at all, and in others it appears fix, eight, or ten times, but

The Arabs themflvescan fay little or nothing about the nature of this wind, only that it always le ves behind it a very ftrong lulphureous Imell, and tiat the air at thefe times is quite clear, except about the horizon, in the north-welt quarter, before obferved, which gives sarning of its approach. We have not been abie to learn whether the dead bodies are icorched, or dififived into a kind of gelatinous fubitance; but from the frories current about them, there has been frequent $r$ afon to believe the latter; and in that cafe fuch fatal eficets may be attributed sather to a noxious vapour than to en abfolute and exccflive heat. The ftory of its goung to the gates of Bagdad and no farther may be reafonably enough accounted for, if the effects are attributed to a poifonous v spour, and not an exceffive heat. The abovementioned wind, Samiel, is fo well known in the neighbourhood of Bagdad and Baffora, that the very children fpeak of it with dread.

SAMOGITIA, a province of Poland, bounded on the north by Courland, on the ealt by Lithuania, on the weft by the Baltic fea, and on the fouth by Regal Pruffia, being about 175 miles in length and 125 in breadth. It is full of forefts and very high mountains, which feed a great number of cattle, and produce a large quantity of honey. There are alfo very active horfes, in high efteem. The inhabitants are clownifh, but honelt; and they will not allow a young woman to go out in the night without a candle in her hand and tivo bells at her girdle. Roffenna and Wormia are the principal places.

SAMOIEDA, a country of the Ruffian empire, between Afiatic Partary and Archangel, lying along the fea-coaft as far as Siberia. The inhabitants are evtremely rude and barbarous. They travel on the linow on fledges, drawn by an animal like a rein-deer, but with the horns of a ftag. Their ftature is fhort ; their fhoulders and faces are broad, with tiat broad noies, banging lips, and ftaring eyes; their complexion is dark, their hair long and black; and they have very little beard. If they have any religion at all, it is idolatry, though there has been fome attempts of late to convert thera. Their huts are made of birch bark lewed together, and laid upon ftakes fet in the ground; at the top is a bole to let out the fmoke; the fire is madt in the middle, round which they repofe in the night.- Their chicf employment is hunting and fifhing.

SAMOLUS, water pimplernel; a genus of plants belonging to the pentandria clafs, and in the natural method ranking under the 2 fft order, Preciec. See Botany Index.

SAMOS, in Ancient Geography, an ifland at no great diftance from the promontory Mycale, on the continent of the Hither Afia, and opposite to Ephefus; the diftance only feven ftadia (Strabo); a free illand, in compafs 87 miles (Pliny) ; or 100 (Ifidorus); with a cognominal town (Ptolemy, Horace) ; fame us for the worfhip and a tample of Juno, with a noted afylum (Virgit, Strabo, Tacitus) ; and hence their coin exhibited a peacock (Atherzeus) : The country of Pythagoras, who, to avoid the oppreffion of tyrants, retired to Italy, the land of freedom. Samos, though not fo happy in producing wine, which Stralo wonders at, all the adjuining ifiands vielding a generous fort, ycl abounds in all the neceffaries of life. The Vafa Samia, among earthen ware, were held in high repute. Sami, the peo- feldom continues more than a few minutes at a time. It often paffes with the apparent quicknefs of lightning. The Arabians and Perfians, who are acquainted with the appearance of the $\mathbb{k y}$ at or near the time this wind arifes, have warning of its approach by a thick haze, which appears like a cloud of duft arifing out of the horizon; and they immediately upon this appearance throw themfelves with their faces to the ground, and continue in that pofition till the wind is paffed, which frequently happens almoft inftantaneounly; but if, on the contrary, they are not careful or brik enough to take this precaution, which is fometimes the cafe, and they get the full force of the wind, it is inftant death.

The above method is the only one which they take to avoid the effects of this fatal blaft ; and when it is over, they get up and look round them for their companions; and if they fee any one lying motionlefs, they take hold of an arm or leg, and pull and jerk it with fome force; and if the limb thus agitated feparates from the body, it is a certain fign that the wind has had its full effect ; but if, on the contrary, the arm or leg does not come away, it is a fure fign there is life remaining, although to every outward appearance the perfon is dead; apd in that cafe they immediately cover him or them with clothes, and adminifler fome warm diluting liquor to caufe a perfiration, which is certainly but flowly brought ahout.

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Samos, ple (Ovid), The ifland is now in the hands of the Sampin Turks. It is about 32 miles in length, and 22 in $\xrightarrow{\square}$ breadth, and extremely fertile. The inhabitants live at their eate, their taxation by the Turks being moderate. The women are very nafty and ugly, and they never flift above once a month. They are clothed in the Turkilh mamer, except a red coif, and their hair hanging down their backs, with plates of filver or block-tin faltened to the ends. - They have abundance of melons, lentils, kidney-beans, and excellent mufkadine grapes. They have white figs four times as big as the common fort, but not fo well tafted. Their filk is very fine, and their honey and wax admirable; befides which, their poultry are excellent : they have iron mines, and moft of the foil is of a rulty colour: they have allo emery flone, and all the mountains are of white marble. The inhabitants are about 12,000 , who are almoft all Greeks; and the monks and priefts occupy molt part of the ifland. They have a bilhop who refides at Cora. See Polycrates.
ofbec's Voy- SAMPAN, is a Chinefe boat without a keel, lookase to Cbili- ing almoft like a trough; they are made of different dina and the Eafi Indies. menfions, but are moftly coverd. Thefe boats are as long as floops, but broader, almoft like a baking trough; and have at the end one or more decks of bamboo flicks: the cover or roof is made of bamboo fticks, arched over in the thape of a grater; and may be raifed or lowered at plealure : the lides are made of boards, with little holes, with fhuters inftead of windows : the boards are faflened on both fides to pofs, which have notchcs like fleps on the infide, that the roof may be let down, and reff on them: on both ends of the deck are commonly two little doors, at leaft there is one at the hindmoft end. A fine white fmooth carpet fpread up as far as the boards makes the floor, which in the middle confifts of loofe boards; but this carpet is only made ufe of to fleep on. As thefe boats greatly differ from ours in fhape, they are likewife rowed in a different manner: for two rowers, polting themfelves at the back end of the fampan, work it forwards very readily by the motion of two oars; and can almoft turn the veffel juft as they pleafe: the oars, which are covered with a little hollow quadrangular iron, are laid on iron fwivels, which are fafted in the fides of the fampan: at the iron the oars are pieced, which makes them look a little bent: in common, a row. cr fits before with a fhort oar; but this he is forced to lay afide when he comes near the city, on account of the great throng of fampans; and this inconvenience has confirmed the Chinefe in their old way of rowing. Infead of pitch, they make ufe of a cement like our putty, which we call chinam, but the Chinefe call it kiang. Some authors fay that this cement is made of lime and a refin exuding from the tree tong yjea, and bamboo ockam.

Befides a couple of chairs, they have the following forriture : two oblong tables or boards on which fome Chinefe characters are drawn; a lanthorn for the night-time, and a pot to boil rice in. They have allo a little cover for their boufehold god, decorated with gilt paper and other ornaments: before lim flands a pot filled with afhes, into which the tapers are put before the idol. The candles are nothing elfe than bamboo ships, to the upper end of which faw-duft of fandal-
wood is ftuck on with gum. Thele tapers are everywhere lighted before the idols in the pagodas, and before the doors in the ftreets; and, in large cities, occafion a fmoke very pernicious to the eyes. Before this idol ftands fome famfo, or Chincle brandy, water, \&ic. We ought to try whether the Chinefe would not like to ufe juniper-wood initead of landal-wood; which latter comes from Suratte, and has almoft the fame fmell with juniper.

SAMSON, one of the judges of Ifrael, memorable for his fupernatural ftrength, his victories over the Philittines, and his tragical end, as related in the book of Judges.
SAMSON's Pof, a fort of pillar eretted in a flip's hold, between the lower deck and the kelfon, under the edge of a hatchway, and furnifhed with feveral notches that ferve as fteps to mount or defcend, as oc. cafion requires. This polt being firmly driven into its place, not only ferves to fupport the beam and fortify the veffel in that place, but alfo to prevent the cargo or materials contained in the hold, from flititing to the oppofite fide, by the rolling of the fhip in a turbulent and heavy fea.
Beors of SAMIUEL, two canonical books of the Old 'Teftament, as being ufually aicribed to the prophet Samuel.
The books of Samuel and the books of Kings are a continued hiffory of the reigns of the kings of Iirael and Judah; for which reafon the books of Samuel are likewife flyled the fiv? and ficond bouks of Kings. Since the fiff 24 chapters contain all that rclates to the Hilory of Samuel, and the latter fart of the firft book and all the fecond include the relation of events that happened after the death of that prophet, it has been fuppofed that Samuel was author only of the firft 24. chapters, and that the prophets Gad and Nathan finifhed the work. The firft book of Samuel comprehends the tranfactions under the government of Eli and Samuel, and under Saul the firt king; and alfo the acts of David while he lived under Saul; and is fuppofed to contain the fpace of 101 years. The fecond book contains the hiftory of about 40 years, and is wholly fipent in relating the tranfactions of David's reign.
SAMYDA, a genus of plants belonging to the dccandria clafs; and in the natural method ranking with thofe of which the order is doubtful. Sce Botany Index.
S.INA, or SANAA, a large, populous, and bandfome Nicouht's town of Affa, capital of Arabia Felix, is fituated in Troselshy Proper Yemen, at the foot of Mount Nikkum, on Herom which are fill to be feen the ruins of a cafle, which the Arabs fuppofe to have been built by Shem. Near this mountain flands the caftle; a rivulet runs upon the other fide; and near it is the Buftan el Metwokkel, a fpacious garden, which was laid out by Imam Metwokkel, and bas becn embellifhed with a fine garden by the reigning imam. The walls of the city, which are built of bricks. exclude this garden, which is inclofed within a wall of its own. The city, properly fo called, is not very extenfive : one may walk round it all in an hour. The city-gates are feven. Here are a number of mofques, fome of which have been built by Turkif pachas. Sana has the appearance of being more populous than it actually is; for the gardens occupy a part

Sampan

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Sana. of the ipace within the walls. In Sana are only 12 public baths; but many noble palaces, three of the mott fplendid of which have been built by the reigning imam. The palace of the late imam El Manzor, with fume others, belong to the royal family, who are very numerous.

The Arabian palaces are built in a fiyle of architecture difierent from ours. The matcrials, are, however, burnt bricks, and fometimes even herw ftones; but the houfes of the common people are of bricks which have been dried in the fun. There are no glafs windows, except in one palace, near the citadel. The relt of the houfes have, inftead of windows, merely flutters, which are opened in fair weather, and thut when it is foul. In the laft cafe, the houfe is lighted by a round wicket, fitted with a piece of Mufcory glafs; fome of the Arabians ufe fmall panes of ftained glafs from Venice.

At Sana, and in the other cities of the Eaft, are great fimferas or caravanferas for merchants and travellers. Each different commodity is fold in a feparate market. In the market for bread, none but women are to be feen; and their little fhops are portable. The feveral claffes of mechanics work, in the fame manner, in particular quarters in the open ffreet. Writers go about with their defks, and make out brieves, copybooks, and inftruct fcholars in the art of writing, all at the fame time. There is one market where old clothes are taken in exchange for new.

Wood for the carpenter's purpole is extremely dear through Yemen; and wood for the fire at Sana is no lefs fo. All the hills near the city are bleak and bare, and wood is therefore to be brought hither from the diftance of three days journey ; and a camel's burthen commonly coffs two crowns. This feareity of wood is particularly fupplied by the ufe of a little pit-coal. Peats are burnt here; but they are fo bad, that fraw muft be intermixed to make them burn.

Fruits are, however, very plenteous at Sana. Here are more than 20 different fecies of grapes, which, as they do not all ripen at the fame time, continue to afford a delicious refrefhment for feveral months. The Arabs likewife preferve grapes, by hanging them up in their cellars, and eat them almolt through the whole year. The Jews make a little wine, and might make more if the Arabs were not fuch enemies to ftrong liquors. A Jew convicted of conveying wine into an Arab's houfe is feverely punified; nay, the Jews muft even ufe great caution in buying and felling it among themilives. Great quantities of grapes are dried here; and the exportation of raifins from Sana is confiderable. One fort of thefe grapes is without ftones, and contains only a foft grain, the prefence of which is not perceptible in eating the raifin.

In the cafle, which flands on a hill, are two palaces. "I faw (fays Niehulr) about it fome ruins of old buildings, but, notwithfanding the antiquity of the place, no remarkable infcriptions. There is the mint, and a range of prifons for perfons of different ranks. The reigning imam refides in the city; but feveral princes of the blood-royal live in the caftle. The battery is the moft elevated place about there buildings; and there I met *ith what I had no expectation of, a German mortar, with this infcription, Jorg Selos Gofmick, 1513 . I faw alfo upon the fame battery feven iron cainons, pattly
buried in the fand, and partly fet upon broken carriages. Sona,
Thefe feven fimall cannous, with fix others near tie Syuba at gates, which are fired to annoutice the return of the dif. ferent feftivals, are all the artiilery of the capital of Xemen."

SANADON, Noel. Etienne, a Jefuit, was Lorn at Rouen in 1676 , and was a diflinguilhed profeffor of humanity at Caen. He there became acquainted with Huet bifhop of Avranches, whofe talle for literature and poetry was finilar to his own. Sanadon afterwards taught rhetoric at the univerfity of Paris, and was elltruited with the education of the prince of Conti, after the death of Du Morceau. In 1728 he was made librarian to Louis XIV. an office which he retained to his death. He died on the 21ll September 1733, in the $5^{8 \text { th }}$ year of his age.

His works are, I. Latin Poems, in 12mo, 1715 , and reprinted by Barbou, in $8 \mathrm{vo}, 175+$. His it yle pofieffes the graces of the Augufan age. His language is pure and nervous; his verfes are harmonious, and his thoughts are delicate and well chofen ; but fometimes his imagination flags. His Latin poems confit of Odes, Elegies, Epigrams, and others, on 1.trious fubjects. 2. A tranflation of Horace, with Remarks, in 2 vols. 4 to, printed at Paris in 1727 ; but the beft edition of this work was printed at Amferdam in 1735 , in 8 vols. 12 mo , in which are alfo inferted the verfions and notes of M. Dacier. Sanadon tranflated with elegance and taite; but he has not preferved the fublimity of the original in the odes, nor the energy and precifion in the epiftes and fatires. In general, his verfion is rather a paraphrafe than a faithful tranflation. Learned men have jufly cenfured him for the liberty which he has taken in making confiderable changes in the order and ffructure of the odes. He has alfo given offence by his uncouth orthography. 3 . A Collection of Difcourles delivered at different times, which afford ftrong proofs of his knowledge of oratory and poetry. 4. A book entitled Pricres et InfirwClions Chretiemnes.

SANBALLAT, the chief or governor of the Cuthites or Samaritans, was always a great enemy to the Jews. He was a native of Horon, or Horonaim, a city beyond Jordan, in the country of the Moabites. He lived in the time of Nehemiah, who was his great opponent, and from whofe book we learn his hittory. There is one circumflance related of him which has oceafioned fome difpute among the learned; and the flate of the queftion is as follows: When Alexander the Great came into Phonicia, and fat down before the city of Tyre, Sanballat quitted the interefts of Darius king of Perfia, and went at the head of 8050 men to ofter his fervice to Alexander. This prince readily entertained him, and being much folicited by him, gave hino leave to ercet a temple upon Mount Gerizim, where he conftituted bis fon in law Manaffeh the high-priett. But this flory carries a flagrant anachronifm : for 120 years before this, that is, in the year of the world 3550 , Sanballat was governor of Samaria; wherefore the learned Dr Prideaux (in his Connection of the Hifories of the Old and New Teflament) fuppofes two Sanballats, and endeavours to reconcile it to truth and probability, by thowing it to be a miftake of Jofephus. This author makes Sanballat to flourifh in the time of Darius Codomannus, and to build his temple upon

Mount

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Sanballat, Mount Gerizim by licence from Alexander the Great; Sanchoma- wheseas it was performed by leave from Darius Notho. thus, in the $15^{\text {th }}$ year of his reign. This takes away the dufficulty ariing from the great age of Sanballat, and brings him to be contemporary with Nehemiah, as the Scripture hiftory requires.

SANCHEZ, Francors, called in Latin Sanctius, was of Las Brocas in Spain, and has been dignified by his own countrymen with the pompous titles of le Pere de la Langue Latine, et le Docfeur de tous les Gens de. Letires. He wrote, 1. An excellent trealife intitled Minerva, or de Caufis Lingace Latince, which was publifhed at Amflerdam in 1714 , in 8 vo . The authors of the Port-Royal Methode de la Langue Latize have been much indebted to this work. 2. The Art of Speaking, and the Method of tranflating Authors. 3. Several other learned pieces on grammar. He died in the year 1600, in his $77^{\text {th }}$ year.

We mult be careful to diftinguif him from another Francois Sanchez, who died at 'louloufe in 1632 . This laft was a Portuguefe phyfician who fettled at Couloufe, and, though a Chriffian, was born of Jewifh parents. He is faid to have been a man of genius and a philofopher. His works have been collected under the title of Opira Medica. His juncti funt tractatus quidam philofoplici non infubtiles. They were printed at Touloufe in 1636.

SANCHONIATHO, a Phenician philofopher and hiftorian, who is faid to have flourihed before the Trojan war about the time of Semiramis. Of this moft ancient writer, the only remains extant are fundry fragments of cofmogony, and of the hiftory of the gods and firft mortals, preferved by Eufebius and Theodoret; both of whom fpeak of Sanchoniatho as an accurate and faithful hiflorian; and the former adds, that his work, which was tranflated by Philo-Byblius from the Phenician into the Greek language, contains many things relating to the hiflory ot the Jews which deferve great credit, both becaufe they agree with the Jewifh writers, and becaufe the author received thefe particulars from the annals of Hierombalus, a prieft of the god Jao.

Several modern writers, however, of great learning, have called in queftion the very exittence of Sanchoniatho, and have contended with much plaufibility, that the fragments which Eufebius adopted as genuine upon the authority of Porphyry, were forged by that author, or the pretended tranflator Philo, from enmity to the Chriftians, and that the Pagans might have fomething to fhow of equal antiquity with the books of Mofes. Thefe oppofite opinions have produced a controverfy that has filled volumes, and of which our limits would hardly admit of an abftract. We fhall therefore in few words ftate what to us appears to be the truth, and refer fuch of our readers as are defirous of fuller information
to the works of the authors (A) mentioned at the bot- Sanchoniae tom of the page.

The controverfy refpecting Sanchoniatho refolves itfelf into two queftions: 1. Was there in reality fuch a writer? 2. Was he of the very remote antiquity which his tranflator claims for him?
That there was really fuch a writer, and that the fragments preferved by Eufebius are indeed parts of his hitory, interpolated perhaps by the tranflator (B), we are compelled to believe by the following reafons. Eufebius, who admitted them into his work as authentic, was one of the moft learned men of his age, and a diligent fearcher into antiquity. His conduct at the Nicene council fhows, that on every fubject he thought for himfelf, neither biafled by authority to the one fide, nor carried over by the rage of innovation to the other. He had better means than any modern writer can have of fatisfying himfelf with refpect to the authenticity of a very extraordinary work, which lad then but lately been tranflated into the Greek language, and made generally known; and there is nothing in the work itfelf, or at leaft in thofe parts of it which he has preferved, that could induce a wife and good man to obtrude it upon the public as genuine, had he himfelf fufpected it to be fpurious. Too many of the Chriftian fathers were indeed very credulous, and ready to admit the authenticity of writings without duly weighing the merits of their claim; but then fuch writings were always believed to be favourable to the Chriftian caufe, and inimical to the caufe of Paganifm. That no man of common fenfe could fuppofe the cofmogony of Sanchoniatho favourable to the caufe of revealed religion, a farther proof cannot be requifite than what is furnifhed by the following extract.
"He fuppofeth, or affirms, that the principles of the univerfe were a dark and windy air, or a wind made of dark air, and a turbulent evening choos; and that thefe things were boundlefs, and for a long time had no bound or figure. But when this wind fell in love with his own principles, and a mixture was made, that mixture was called defire or cupid (rooos).
" This mixture completed, was the beginning of the ( $x$ ruasus) making of all things. But that wind did not know its own production; and of this, with that wind was begotten Mot, which fome call Mud, others the putrefaction of a watery mixture. And of this came all the feed of this building, and the generation of the univerfe.
"But there were certain animals, which had no fenfe, out of which were begotten intelligent animals, and were called Zophefernin, that is, the fies or overfeers of Heaven; and were formed alike in the fhape of an egg. Thus fhone out Mot, the fun and the moon, the lefs and the grcater ftars.
"And the air fhining thoroughly with light, by its fiery
(A) Bochart, Scaliger, Voffius, Cumberland, Dodwell, Stillingfleet, Mofheim's Cudworth, and Warburton.
(B) Of thefe there are indeed feveral proofs. Philo makes Sanchoniatho fpeak of Byblus as the moll ancient city of Phenicia, which, in all probability, it was not. We read in the book of Judges of Berith or Berytus, the city where Sanchoniatho himfelf lived; but not of Byblus, which was the native city of Philo, and to which he is therefore partial. He makes him likewife talk of the Grecks at a period long before any of the Grecian flates were known or probably peopled.

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Sanchonia- fiery influence on the fea and earth, winds were begot-
tho. ten, and clouds and great detluxions of the heavenly wa-
ters. And when all thefe things firf were parted, and were feparated from their proper place by the heat of the fun, and then all met again in the air, and dafhed againft one another, and were fo broken to pieces; whence thunders and lightnings were made : and at the ftroke of theis thunders the fore-mentioned intelligent animals were awakened, and frighted with the found; and male and female fitrred in the earth and in the lea: 'This is their generation of animals.
"After thefe things our author (Sanchoniatho) goes on faying: Thele things are written in the Cofmogony of Taautus, and in his memoirs ; and out of the conjectures, and furer natural figns which his mind faw, and found out, and wherewith he hath enlightened us.
" Afterwards declaring the names of the winds, north and fouth and the reft, he makes this epilogue. "But thefe firlt men confecrated the plants thooting out of the earth, and judged them gods, and workipped them ; upon whom they themfelves lived, and all their pofterity and all before them : to thefe they made their meat and drink offerings.' Then he concludes: 'thefe were the devices of worfhip agreeing with the weaknefs and want of boldnefs in their minds."

Let us fuppofe Eufebius to have been as weak and creduleus as the darkeft monk in the darkeit age of Europe, a fuppofition which no man will make who knows any thing of the writings of that eminent hiftorian; what could he fee in this fenfelefs jargon, which even a dreaming monk would think of employing in fupport of Chriftianity ? Eufebius calls it, and calls it truly, direct atheifm; but could he imagine that an ancient fyftem of atheifm would contribute fo much to make the Pagans of his age admit as divine revelations the books of the Old and New Teitaments, that he fhould be induced to adopt, without examination, an impudent forgery not 200 years old as genuine remains of the molt remote antiquity?

If this Phenician cofmogony be a fabrication of Porphyry, or of the pretended tranflator, it muit furely bave been fabricated for fome purpofe; but it is impofible for us to conceive what purpofe either of thefe writers could have intended to ferve by forging a fyftem fo extravagantly abfurd. Porphyry, though an enemy to the Chriltians, was not an atheift, and would never have thought of making an atheift of him whom he meant to obtrude upon the world as the rival of Mofes. His own principles were thofe of the Alexandrian Platonilts; and had he been the forger of the works which bear the name of Sancloniatho, inftead of the incomprehenfible jargon about dark wind, cvening chaos, Niot, the overfeers of heaven in the thape of an egs, and animati)? proceeding from the found of ilunder, we fhould doubtle's have been amuled with refined fpeculations concerning the operations of the Demiurgus and the other perfons in the Platonic Priad. See Platonism and PorphyRY.

Father Simon of the eratory imagines * that the purpofe for which the hiftory of Sancheniatho was forged, was to fupport Paganifm, by taking from it its mythology and allegories, which were perpetually objeated to it by the Chrillian writers; but this learned man totally miltakes the matter. The 1 rimitive Chri-

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ftians were too much attached to allegories themfelves Sanchonise to reit their objections to Paganifm on fuch a foundation: what they objected to that fyftem was the immoral Atories told of the priefts. Wo this the l’agan priefls and philofophers replied, that thefe Itories were only mythologic allcgories, which veiled all the great truths of Theology, Ethics, and Phyfics. The Chriftians faid, this could not be; for that the Itories of the gods had a fubflantial fourndation in fact, thefe gods being only dead men deified, who, in life, had like pations and infirmities with other mortals. This then was the objection which the forger of the works of Sanchoniatho had to remove, if he really forged them in fupport of Paganifm ; but, inftead of doing $f 0$, he gives the genealogy and hiftory of all the greater gods, and fhows, that they were men deified after death for the exploits, fome of them grofsly immoral, which they had performed in this world. We have elfewhere (Polytheisu, $\mathrm{N}^{\circ} \mathbf{1 7}_{7}$.) given his aecount of the deification of Chryfor, and Ouranos, and Ge, and Hypiflos, and Mtuth; but our readers may not perhaps be ill pleafed to accompany him through the hiltory of Ouranos and Cronus, two of his greateft gods; whence it will appear how little his writings are calculated to fupport the tottering caufe of Paganifm againtt the objections which were then urged to it by the Chriltian apologills.
"Ouranos (fays he), taking the kingdom of his father, marzied Ge his fifter, and by her had four fons; Ilus, who is called Cronus; Betylus; Dagon, who is Siton, or the god of corn; and Atlas. But by other wives Ouranos had much iflue, wherefore Ge being grieved at it and jealous, reproached Ouranos, fo as they parted from each other. But Ouranos, though he parted from her, yet by force invading her, and lying with her when he lifted, went away again; and he alio attempted to kill the children he had by her. Ge alfo often defended or avenged herfelf, gathering auxiliary powers untoher. But when Cronus came to man's age, ufing Hermes Trifniegiftus as his counfellor and affiftant (for he was his fecretary), he oppofed his father Ouranos, avenging his mother. But Cronus had children, Perfephone and Athena; the former died a virgin, but by the counfel of the latter Athena, and of Hermes, Cronus made of iron a fcimitar and a fpear. Then Hermes, fpeaking to the affiflants of Cronus with enchanting words, wrought in them a keen defire to fight againft Ouranos in the behalf of Ge ; and thus Cronus warring againft Ouranos, drove him out of his kingdom, and fuccecded in the imperial power or office. In the fight was taken a wcll-beloved concubine of Ouranos big with child. Cronus gave her in marriage to Dagon, and the brought forth at lis houfe what the had in her woinb by Ouranos, and called him Demarom: After thefe things Cronus builds a wall round anout his houfe, and founds Byblus the firft city in Phemicia. Afterwards Cronus, fulpecting his own brother Atlas, with the advice of Hermes, throwing him into a deep hole of the earth, there buried lim, and having a lon called Sadid, he difpatched him with his own fword, having a fufpicion of hint, and deprived his own fon of life with his own hand. He allo cut off the head of his own daughter, fo that all the gods were amszed at the mind of Cronus. But in procefs of time, O.rranos. being in flight, or banifliment, fends his diuy hiter Aflarte, with two other fillers Rliea and Dione, to che

Sanchonia- off Cronus by deceit, whon Cronus taking, made wives tha. of thefe filters. Ouranos, underftanding this, fent Eimarmene and Hore, Fate and Beauty, with other auxiliaries, to war againit him: but Cronus, having gained the affections of thefe alfo, kept them with himfelf. Moreover, the god Ouranos deviled Bctulia, contriving fones that moved as having life. But Cronus begat on Aftarte feven daughters called Titanides or Artemides; and he begat on thea feven fons, the youngef of whom, as foon as he was born, was confecrated a god. Alfo by Dione he had daughters, and by Attarte moreover two fons, Pothos and Eros, i. e. Cupid and Love. But Dagon, after he had found out bread, corn, and the plough, was called Zeus Arotrius. To Sydyc, or the $j u f$, one of the Titanides bare A/elepius. Cronus had alfo in Percaa three fons, 1. Cronus his father's namefake. 2. Zeus Belus. 3. Apollo."

Is it conceivable, that a writer fo acute as Porphyry, or indeed that any man of common fenfe, either in his age or in that of Philo, would forge a book filled with fuch flories as thefe, in order to remove the Chriflian objections to the inmoral characters of the Pagan divinities? The very fuppofition is impoffible to be made. Nor let any one imagine that Sanchoniatho is here writing allegorically, and by his tales of Ouranos, and $G e$ and Cronus, is only perfonifying the heaven, the earth, and time. On the contrary, he affures us, that Ouranos, or Epigeus, or Autochthon (for he gives him all thefe names) was the fon of one Eliaun or Hypiflos, who dwelt about Byblus, and that from him the element which is over us was called heaven, on account of its excellent beauty, as the earth was named $G e$ after his fiter and wife. And his tranflator is very angry *

Evang. that, "by a great deal of force and fraining, they lalib. i. cap. 6 . boured to turn all the fories of the gods into allegories and phyfical difcourfes." This proves unanfwerably, that the author of this book, whoever he was, did not mean to veil the great truths of religion under the cloak of mythologic allegories; and therefore, if it was forged by Porphyry in fupport of Payanifm, the forger fo far miftook the ftate of the queflion between him and his adverlaries, that he contrived a book, which, if admitted to be ancient, totally overthrew his own caufe.

The next thing to be inquired into with refpect to Sanchoniatho is his antiquity. Did he really live and write at fo early a period as Porphyry and Philo pretend ? We think lie did not ; and what contributes not a little to confirm us in our opinion, is that mark of national vanity and partiality, common to after times, in making the facred myfleries of his own country original, and conveyed from Phenicia into Egypt. This, however, furnihes an additional proof that Porphyry was not the forger of the work; for he well knew that the myfferies had their origin in Egypt (fce Misteries), and would not have fallen into fuch a blunder. He is guilty, indeed, of a very great anachronifm, when he makes Sanchoniatho contemporary with Semiramis, and yet pretends that what he writes of the Jews is compiled from the records of Hierombalus the prieft of the god Jao; for Bochart has made it appear in the bigheft dcgree probable + , that Hierombalus or Jeromb baal is the Jerul-baal or Gidean of Scripture.
2. cap. 17. - between the reign of Semiramis and the Trojan war
rifhed not above feventy years before the defruction of Sanchonia. Troy. But fuppofing Sanchoniatho to have-really con- tho. fulted the records of Gideon, it by 10 means follows that he flourifhed at the fame period with that judge of Ifrael. He fpeaks of the building of Tyre as an ancient thing, while our beft chronologers $\ddagger$ place it in the time of Gideon. Indeed, were we certain that any writings had been left by that holy man, we flould be obliged to conclude, that a large tract of time had intervened between the death of their author and their falling into the hands of Sanchoniatho ; for, furely, they could not, in a flort period, have been fo completely corrupted as to give any countenance to his impious asfurdities. His atheiftic cofmogony he does not indeed pretend to have got from the annals of the prieft of Jao, but from records which were depofited in his own town of Berytus by Thoth a Phenician philofopher, who was afterwards made king of Egypt. But furely the annals of Gideon, if written by himfelf, and preferved pure to the days of Sanchoniatho, murt have contained fo many truths of the Mofaic religion, as muft have prevented any man of fenfe from adopting fo impoffible a theory as Thoth's, though fanctioned by the greateft name of profane antiquity. Stillingfleet indeed thinks it moft probable that Sanchoniatho became acquainted with the moft remarkable paffages of the life of Jerub-baal from annals written by a Phenician pen. He obferves, that immediately afier the death of Gideon, the Ifraelites, with their ufual pronenefs to idulatry, worfhipped Baal.berith, or the idol of Berytus, the town in which Sanchoniatho lived; and from this circumflance he concludes that there muft lave been fuch an intercourfe between the Hebrews and Berytians, that in procefs of time the latter people might affume to themfelves the Jerub-baal of the former, and hand down his actions to poflerity as thofe of a priff inflead of a great commander. All this may be true; but if fo, it amounts to a demonftration that the antiquity of Sanchoniatho is not fo high by many ages as that which is claimed for him by Philo and Porphyry, though he may fill he more ancient, as we think Voffius has proved him to be *, than any other profane hiftorian whofe writings lave come down to us either entirc or in fragments.

* $D_{c} H_{j} \beta$.

But granting the authenticity of Sanchoniatho's hiftory, what, it may be afked, is the value of his fragments, that we flould be at any trouble to afcertain whether they be genuine remains of high antiquity, or the forgeries of a modern impoftor? We anfwer, with the illuffrious Stillingfleet, that though thefe fragments contain fuch abfurdities as it would be a difgrace to reafon to fuppofe credible; though the whole cofmogony is the grofieft fink of atheifm; and though many perfons make a figure in the hiftory, whofe very exiftence may well be doubted; yet we, who have in our hands the light of divine revelation, may in this dungeon difcover many excellent relicks of ancient tradition, $u$ hich throw no feeble light upon many paflages of holy fcripture, as they give us the origin and pregrefs of that idolatry which was fo long the opprobrium of human nature. They furnilh too a complete refutation of the extravagant chronology of the Chaldeans and Egyptians, ard flow, if they be genuine, that the world is indeed not older than it is faid to be by Mofes. We flall conclude the article by earnefly recommending to our

Sancerft readers an attentive perufal of Cumberiand's SANichoII NTATHO.
$\underbrace{\text { Sanctuary; }}$ S.ANCROFT, Willifasp, archbifhop of Canterbury, was born at Frelingfield in Suffolk in 1616 ; and admitted into Emanuel college, Cambridge, in $1633^{\circ}$ In $16 \psi_{2}$ he was elected a fellow; and, for refuling to take the covenant, was ejected from his feilouthip. In 1660 he was chofon one of the univerfity preachers; and in 1663 was nominated to the deanry of Y'ork. In 1664 lee was inftalled dean of St Paul's. In this ftation he fet himfelf with unwearied diligence to repair the cathedral, till the fire of London in 1666 employed his thoughts on the more noble undertaking of rebuilding it, toward which he gave $1+001$. He a'fo rebuilt the dennry, and improved its revenue. In 1658 he was admitted archdeacon of Canterbury, on the king's prefentation. In 1677 , being now prolocutor of the convocation, he was unexpectedly adranced to the archbiflopric of Canterbury. In 1687 he was committed to the tower, with fix other bithope, for prefenting a petition to the king againft reading the declaration of indulgence. Upon King James II.'s withdrawing himfelf, he concurred with the lords in a declaration to the prince of O:ange for a free parliament, and due indulgence to the Proteflant diffenters. But when that prince and his confort were declared king and queen, his grace refufing to take the oath to their majefties, he was fufpended and deprived. - He lived in a very private manner till his death in 1693. His learning, integrity, and piety, made him an exalted ornament of the church. Ife publified a volume in 12 mo , intitled Modern Politics, taken from Machiavel, Borgia, and other felect authors; Familier Letters to Mr North, an 8 vo pamphlet; and three of his fermons were printed together after his death.

SANCTIFICATION, the act of fanctifying, or rendering a thing holy. The reformed divines define fanctification to be an act of God's grace, by which 2 perfon's defires and affections are alienated from the voorld ; and by wlich he is made to die to fin, and to live to rightenufinefs; or, in other words, to feel an abhorrence of al! vice, and a love of religion and virtue.

SANCTION, the authority given to a judicial act, by which it becomes legal and authentic.

SANCTORIUS, or SANCTOR1O, a molt ingenious and learned phyfician, was profeflor in the univerfity of Padua, in the lieginning of the 17 th century. He contrived a kind of flatical chair, by means of which, after effimating the aliments received, and the fenfible difcharges, he was emilled to determine with great exnetnefs the quantity of infenfible perfpiration, as well as what kind of victuals and drink increafed or diminifhed it. On thefe experiments he erected a curious fyllem, which he publifhed under the title of De Medicina Statica; which is tranflated into Englifh by Dr Quincy. Sanctorius publifhed fereral other treatifes, which thesed great atilities and learning.

SANCTUARY, among the Jews, alfo called Sancsum fanforum, or Holy of holies, was the holict and moft retired part of the temple of Jerufalem, in trlich the ark of the covenant was preferved, and into which none but the high-rrieft was allowed to enter, and that only once a year, to intercede for the people.

Some diltinguifh the fancluary from the fanctum fanc-
torum, and maintain that the whole temple was called Saventary, the fancluary.

To try and examine any thing by the weight of the fanctuary, is to examine it by a juft and equal feale; becaufe, among the Jcws, it was the cuftom of the pricils to keep tlone weighte, to ferve as ftandards for regulating all weights by, though thefe were not at all different from the royal or profane weights.

Sanctuary, i:1 the Romith church, is alfo ufed for that part of the church in which the altar is placed, encompafted with a rail or belluftrade.

Sanctusry, in our ancient cuftoms, the fane with Asi lum.

SAND, in Natural Hiffory, properly denotes fmall particles of filiceous flories. Sands are ful ject to te varioufly blended, both with different fubftances, as that of talks, \&c.; and hence, as well as from their various colours, are fubdivided into, I. White fands, whether pure or mixed with other arenaceous or heterogeneous particles; of all which there are feveral kinds, differing no lefs in the finenefs of their particles than in the different degrees of colour, from a bilght and fhining white, to a brownifh, yellowin, greenith, \&ic. white. 2. The red and reddifh fands, both pure and impure. 3. The yellow fands, whether pure or mixed, are alfo very numerous. 4. The brown fands, diftinguificed in the fame manner. 5. The black fands, of which there are only two varieties, viz. a fine fining greyifh black fand, and another of a fine thining reddih. black colour, 6. The green kind ; of which there is only one known fpecies, viz. a coarfe variegated dufky green fand, common in Virginia.

Sand is of great ufe in the glafs manufacture; a white kind of fand being employed for making of the white glafs, and a coarfe greenilh-looking fand for the green glafs.

In agriculture it feems to be the office of fand to render unctuous or claycy earths fertile, and fit to fupport vegetables, by making them more open and loofe.

SAND-Bogs, in the art of war. Sec SACKS of Earth.

Sand-Eeli See Amnodytes, Ichitiyolocy Indic.
S.and-Floods, a name given to the motion of tand fo common in the deferts of Arabia. Mr Bruce gives tie following accurate defcription of fome that l.e fass in iraveiling through that long and dreary defert. "At one o'clock (fays he) we alighted among fome acacia trees at Waadi el Halboub, haring gone twenty-one miles. We were here at once furpriled and territied by a fight furely one of the moft magrificent in the world. In that vaft expanfe of defert from weit and to northweft of us, ve faw a number of prodigious pillars of fand nt different diffances, at times moving with great celerity, at others falking on with a majeffic flownefs: at intervals we thought they were coming in a fers minutes to overwhelm us; and froall quantities of fand did actually more than once reach us. Again they would retreat io as to he alinoft out of fight, :licir tops reaching to the very clonds. Thicre the tops often feparated from the bodies; and thife, once disjuired, difperfed in the air, and did not appear more. Sometimes they were broken oear the middile, as if fruck with a large cannon flot. About noon they began to adra ice with confiderable fivifincfs upon us, the wind being very
ilrong

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 us about the difance of three miles. The greateft diameter of the largeft appeared to me at that diftance as if it would mealure ten feet. They retired from us with a wind at fouth-eaft, leaving an impreffion upon my mind to which I can give no name, though furely one ingredient in it was fear, with a confiderable deal of wonder and aftonifhment. It was in vain to think of flying, the fwifteft horfe or fafteft failing flip could be of no ufe to carry us out of this danger; and the full perfuafion of this rivetted me as if to the fpot where I food, and let the camels gain on me fo much in my flate of lameness, that it was with fome difficulty I could overtake them."The fame appearance of moving pillars of fand prefented themfelves to us this day in form and difpofition like thofe we had feen at Waadi Halboub, only they feemed to be more in number and lefs in fize. They came fereral times in a direction clofe upon us, that is, I believe, within lefs than two miles. They began immediately after funrife, like a thick wood, and almoft darkened the fun: his rays thining through them for near an hour, gave them an appearance of pillars of fire. Our people now became defperate : the Greek fhrieked out, and faid it was the day of judgement. Ifmael pronounced it to be hell, and the Tucorories, that the world was on fire. I alked Idris if ever he had before feen fuch a fight ? He faid he had often feen them as terrible, though never worfe; but what he feared moot was that extreme rednefs in the air, which was a fure prefage of the coming of the fimoom." See Sinoom.
The flowing of fand, though far from being fo tremendous and hurtful as in Arabia, is of very bad confequences in this country, as many valuable pieces of land have thus been entirely loft; of which we give the following infances from Mr Pennant, together with a probable means of preventing them in future. "I have more than once (fays he), on the eaftern coaits of Scotland, obferved the calamitous fate of feveral extenfive tracts, formerly in a moft flourifling condition, at prefent covered with fands, unfable as thofe of the deferts of Arabia. The parifh of Furvie, in the county of Aberdeen, is now reduced to two farms, and above 5001 . a year loft to the Errol family, as appears by the oath of the factor in 1600 , made before the court of feffion, to afcertain the minifter's falary. Not a veflige is to be feen of any buildings, unlefs a fragment of the church.
" The eftate of Coubin, near Forres, is another melancholy inftance. This tract was once worth 3001 . a-year, at this time overwhelmed with fand. This ffrange inundation was fill in motion in 1769 , chiefly when a ftrong wind prevailed. Its motion is fo rapid, that I have been affured, that an apple-tree bas been fo covered with it in one feafon, that only the very fummit appeared. This diftref was brought on about ninety years ago, and was occafioned by the cutting down fome trees, and pulling up the bent or ftar which grew on the fand hills; which at laft gave rife to the act of 15 George 1II. c. 33 . to prohibit the deltruction of this ufeful plant.
" I beg leave to fuggeft to the public a polfible means of putting a ftop to thefe deftructive ravages. Providence hath kindly formed this plant to grow only is pure fand. Mankind was left to make, in after-times,
an application of it fuitable to their wants. The fandhills, on a portion of the Flinthhire fhores, in the parifh of Llanafa, are covered with it naturally, and kept firm in their place. The Dutch perhaps owe the exiftence of part at leafl of their country to the fowing of it on the molile folum, their fand-banks.
"My humane and amiable friend, the late Benjamin Stillingfleet, Eiq. recommended the fowing of this plant on the fandy wilds of Norfolk, that its matted roets might prevent the deluges of fand which that country experiences. It has been already remarked, that wherefoever this plant grows the falutary efiects are foon obferved to follow. A fingle plant will fix the fand, and gather it into a hillock; thefe hillocks, by the increafe of vegetation, are formed into larger, till by degrees a barrier is made often againit the encroachments of the fea; and might as often prove priventative of the calamity in quellion. I cannot, therefore, but recommend the trial to the inhabitants of many parts of North Britain. The plant grows in moft places near the fea, and is known to the Highlanders by the name of murah; to the Englifh by that of bentAar, mat-grafs, or marrams Linnæus calls it arundo arenaria. The Dutch call it helm. This plant hath ftiff and fharp-pointed leaves, growing like a rufh, a foot and a half long: the roots both creep and penetrate deeply into their fandy beds: the ftalk bears an ear five or fix inches long, not unlike rye; the feeds are fmall, brown, and roundih. By good fortune, as old Gerard obferves, no cattle will eat or touch this vegetable, allotted for other purpofes, fubfervient to the ufe of mankind."

Sand-Piper. See Tringa, Ornithology Index.
SAND-Stone, a compound fone of which there are numerous varieties, arifing not only from a difference of external appearance, but alfo in the nature and proportions of the conftituent parts. See Geology Index.

There is a fingular variety of fand-ftone, which confifts of fmall grains of hard quartz which frike fire with fteel united with fome micaceous particles. This variety is flexible and elaftic, the flexibility depending on the micaceous part and fofteffs of the gluten with which the particles are cemented. This elaftic ftone is brought from Brazil. There are alfo two tables of white marble, kept in the palace of Borghefe at Rome, which have the fame property. But the farry particles of their fubftance, though tranfparent, are rather foft, and may be eafily feparated by the nail. They effervefce with acids, and there is a fmall mixture of minute particles of talk or mica.

Sand-fones are of great ufe in buildings which are required to refift air, water, and fire. Scme of them are foft in the quarry, but become hard when expofed to the air. The loofe ones are moft ufeful, but the folid and hard ones crack in the fire, and take a poinh when ufed as grindftones. Stones of this kind ought therefore to be nicely examined before they are employed for valuable purpofes.
SANDAL, in antiquity, a rich kind of flipper worn on the feet by the Greek and Roman ladies, made of gold, filk, or other precious fuff; confifting of a fole, with an hollow at one extreme to embrace the ancle, but leaving the upper part of the foot bare.

SANDAL, is alfo ufed for a thoe or flipper worn by the pope and other Romifl prelates when they officiate.

Sand, Sandal.

Sandsrach. It is alfo the name of a fort of flipper worn by feveral congregations of reformed monks. This laft conffifs of no more than a mere leathern fole, faftened with latches or buckles, all the reft of the foot being left bare. The Capuchins wear fandals; the Recollects, clogs ; the former are of leather, and the latter of wood.
a Sandall.Wood. See Saunders.
S.ANDARACH, in Natural Hifory, a very beautiful native folfil, though too often confounded with the common factitious red arfenic, and with the red matter formed by melting the common yellow orpiment.

It is a pure fubftance, of a very even and regular flructure, is throughout of that coleur which our dyers term an orange fcarlet, and is confiderably tranfparent even in the thickeft pieces. But though, with refpect to colour, it has the advantage of cinnabar while in the mafs, it is vaftly inferior to it when both are reduced to powder. It is moderately lard, and remarkably heavy; end, when expofed to a moderate heat, melis and flows like oil : if fet on fire, it burns very brikly.
It is found in Saxony and Bohemia, in the copper and filver mines; and is fold to the painters, who find it a very fine and valuable red: but its virtues or qualities in medicine are no more afcertazined at this time than thofe of the yellow orpiment.

Gum-SANDARACH, is a dry hard refin, ufually in the form of loofe granules, of the fize of a pea, a horie-bean, or larger; of a pale whitif yellow colour, tranfparent, and of a refinous fmell, brittle, verv inllammable, of an acrid and aromatic tafte, and diffufing a very pleafant fmell when burning. It was long the prevailing opinion that this gum was obtained from the juniperus communis; but this plant does not grow in Africa, in which country only fandarach is produced; for the gum fandarach of the thops is brought from the fouthern provinces of the kiugdom of Morocco. About fix or feven hundred quinals of it are exported every year from Santa Cruz, Moga re, and Safy. In the lai guage of the coustry it is $\mathrm{ca}^{\text {l. }}$. el arralla. The tree which produces it is a Thuia, fuand an oby M. Vahl in the kingdom of Tunis. It nas $m$ de known feveral years ago by Dr $S^{1}$ w. whot wo dit Cypreflus fructu quadrivalvi, Equifeti infar artict -ti ; but neither of th-fe learned men was acquait ted wi h the eco:omical ufe of this tree; probaoly b caufe, eing not common in the northern part of B ribarv, the inhathionts fir little advantage in collecting the refin which exules from it.
M. Schoufbue (A), who faw the fpecies of thuia in queftion, favs that it does not rise to more than the beight of 20 or 30 feet at moft, and th-t the limme'er of its trurk does not exceed ten or twelve inches. It dininguifhes iffelf, on the firit yerw, from the two other fpecies of the fame genus, cultialed in gardens, by having a very difticat tru, an, it.e f. re of a re-l tree; whereas in the latter the brimicies rife from the roont, which gives them the apperer ce rather of bufles. Its branches alfo are mee ciolued and brittle. Its flowers, whic's are not very apfarent, flew themfi es

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in April ; and the fruit, which are of a fpherical form, Sandarach ripen in September. When a branch of this tree is hold to the light, it appears to be interfperfed i ith a multitude of tranfparent veficles which contain the re-andemantfin. When thefe veficles burit in the fummer months, a refinous juice evudes from the trunk and branches, as is the cafe in other coniferous trees. This rcfin is the fandarach, which is collected by the it habitants of the country, and carried to the ports, from which it is trantported to Europe. It is employed in making fome kinds of fealing-wax, and in different forts of is rift. In 1793 a liundred weight of it cont in Morocco fom ${ }^{1} 3$ to $13 \frac{1}{2}$ piaflres, which make from about $31.5 \%$ th 31. 7s. 6d. Aterling. The duty on expertation was about 75, 6d. ferling per quintal."
Sandarach, to be good, mult be of a bight yellow colour, pure and tranfparent. It i ze. esticle very dificul: to be adulterated. Care, however, muft be taken, thit the Moors do not mix with it too mu h fand. I. is probable that a tree of the fame kind produces the gum fancarach of Senegal, which is exported in pretty cul fiderable quantities.

## Pounded Sand.añach. See Pousce.

SANDEMANIANS, in ecclefiafical hitiory, a mo. dern fect that originated in Scotland about the year 1728 ; where it is at this time dilinguifed by the $n$ in of Glafiter, after its founder Mr Jobn Glafi, whlo was a minitter of the eff.blithed cherch in that lingdora; but being charged with a defign of fubverting the national covenant, and fapping the foundation of all national eftabliihments by the kirk judicatory, was expelled by the fynod from the church of Scolland. His fentimen: are fully explained in a tract publithod at that tim. intitled, "The Tefiniony of the King of Martym" and preferved in the firt wolume of his works. In con. feq tence of Mr Glaf's expulfon, his adherents f. med themfelves into churches, conform. ble in their inllitution and dilcipline to what they apprelended to be the plan of the firt churches recorded in the Nerr Teliamant. Soon after the year ${ }^{15} 55$, MTr Roburt Sande: as, an elder in one of thefe charches in Scot/and, plblimed a fevies of letters addrefied to Mr Hervey, occafioned by: his Theron and Afpafis; in which he endeavours to flow, that his notion of faith is contradiacory to the fcripture a count of it, and could only ferve to lead men, profeffecily holding the d etrines co:amonly called Calvinific, to eftablith their own righteoufne's upon their frames, inward feelings, and various acts of faith. In thefe letters Mr Sandeman attempts to prove, that $\mathrm{f}_{6} i \mathrm{~h}$ is neither more nor lefs than a fimple affent to the divine teflimony concerning Jefus Chift, reorrded in t.e New Tellament ; and he maintains, that the word $f$ in, or $l-$ if, is confant') wied by : s apofles to faznify what is denoted bv it in con mo: dicourle, 12. a perfiation of the truth of any propofites, and then the: is no dity ence buween bo icying ary common tolimuny, ad be lieving the e pollolic tel mony, exce t that whicl refls froin the noture of the tellinony itie'f. This led the way to a controverfy, among thoie wh:o
 in fribh ; oul the.e s.ho adopted Mr Sandeman's vi.

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Saniemani-tion of it, and who took tlie denomination of Sandema-
Ins
Sat dori. cum. nians, formed thenirelves into church order, in ftrict fellowhiip with the churches in Scotland, but holding no kind of commurion with other churches. The chief ofinions and practiccs in which this fect differs from other Chrikians, are, their weekly adminiffration of the Lerd's Supper; their love-feafts, of which every member is not cnly allowed but required to partake, and which confin of their dining together at each others biucfes in the interval between the morniig and afterbioon fervice; their kifs of charity ufed on this occafion, at the :umin on of new member, and at other times, wien they deem it to be neceffary or proper; their weekly colicaion before the Lord's Supper, for the fuppurt c: ti.e poor, and defraying other expences; mutual Whor ation; abstincnce from blood and things ftrangled ; Wulling each other's feet, the precept concerning waich, as well as other precelt, they underfand literat 'y ; commurity of goods, fo far as that every one is If contider all that he has in his poffeftion and power as 3atte to the calls of the poor and church; and the unlawfingefs of lyying up treafures on earth, by fetting them apart for any ditant, future, and uncertain ufe. They al cov of public and private diverfions, fo far as they are not connected with circumftances really finful; but apprehending a lot to be facred, difapprove of playing at cards, dice, \&c. They maintain a plurality of elders, paftors, or bifhops, in each church; and the neceffity of the preferice of two elders in every act of dilcipline, and at the adminilration of the Lord's Suprer. In the choice of thefe elders, want of learning, and engacremen:'s in trade, Evc. are no fufficient objection; but fecond marriages difqualify for the office; and they are ordained by prayer and faftiag, impofition of hanc's, and giving the right hand of fellowfhip. In their difcipline they are frift and levere; and think themfelves obliged to feparate from the communion and worfhip of all fuch relig!ous focicies as appear to them not to frofers the fimple tiuth for their only ground of hope, and who do not wall in obedience to it. We thall only add, that in every church tranfaction, they efteem unanimity to be abrotuteiy neceflary. From this abfract of the account which they have publithed of their tenets and praftices, it docs not feem to be probable that their rumber mould be very conifderable.

## SANDERS, a dye wood. See Siunders.

SANDIVER, an old rame for a whitifh fubfance which is thrown up from the metal, as it is called, of which glafs is made; and, fwimmiag on its furface, is fiximmed off.

Sandiver is alio plentifully ejeded frem volcances; fome is of a fane white, and others tinged bluih or yellowits.

Sindiver is faid to be detergent, and good for foulnci-

S.INDIX, a kiod of mivium, or red lead, made of se. wic, but much inferiut to the tre minium.
S.I FODOMIR, a city, the sapital of a palatina:e of the fome :ame, is Litle Poland, on the Viftula. The Swedes bie. ap tlie catle in 16-6; and here, in 1659 , w is a Jre. $\ldots$..l be te lct cen thie Tartars and Ruffians. It is $\mathrm{S}_{\text {i }}$ milics fouthecint of Cracow. Lat. 49. 26. Long. 2-. 10.

SANMONLCTMI, a genes of thats betonging to the
decandria clafs; and in the natural method ranking winder the 23 d order, Trihilata. See Botany Index.

SANDPU, or SANPOO, the vulgar name of a river in the Eaft Indies, which is one of the largelt in the world; but it is better known by that of Burramposter. Of this moll majeftic body of waters we have the fullowing very amimated account in Maurice's Indian Antiquities. "An object equally novel and grand now claims our attention; fo novt!, as not to have been krown to Europeans in the real extent of its magnifcence before year $5_{7} 65$, and fo anfully grand, that the aftonifhed geographer, thinking the language of profe inadequate to convey his conception, lins had recourfe to the more expreflive and energetic language of poetry; but
-- Scarce the Mufe herfelf
Dares ftretch her wing o'er this enormous mafs
Of rufling waters; to whofe dread expanfe, Continucus depth, and wond'rcus length of courfe, Our floods are rills.
"This flupendous olject is the Burrampooter, a word which in Shawerit fignires the fon of Brahma; for no maser origin could be aftigned to fo worderful a progeny. This fupreme monarch of Indian sivers derives its furce from the oppofite fide of the fame mountain from which the Ganges frings, and taking a bold fweep towards the eart, in a line directly oppofite to the courfe of that river, wahes thee valt country of Tibet, where, by way of diftinction, it is denominated Sanfor, or the river. Winding with a rapid current through Tibet, and, for many a league, amicil dreary deferis and regions remote fiom the habitations of neen, it wa. tus the borders of the territery of Laifa, the refiderice of the grand Lama; and then deviating with a cometary irregularity, from an eaft to a fouth-caft courfc, the mighuy acridercr approaches within $2=0$ nilles of the weftern frontiers of the vaft empire of Clina. From this point its more direct path to the ocem lay through the gulf of Siam; but with a defultery courle peculiar to iifelf, it fuddenly turns to the weft through Affam, and enters Bengal on the north-eat quarter. Circling round the wettern point of the Garrow mourtains, the Burrampooter now takes a fruthen direction ; and for 60 miles beiore it meets the Ganges, its filter in roint of crigin, tut not its rival in point of magnitude, glides majeffically along in a fream which, is regularly from four to five miles wide, and but for its fieflinefs, Mr Rev.nel fays, might pals fer an arm of the fea. About $\triangle 0$ miles from the ocean thefe misk hty rivers unite their freams; but that gentleman is of opinion that their junction was-formerly hi, her up, ind that the accumulation of two fuch vaft bodies of water, fcooped cut the amazing bed of the Miegna lake. Their prefent conflux is helow Luckipcor; and by that corffucr.ce a bciy of frefl ru:ning water is produced, hardly cqual!ed, and not exceeded, either in the old cr the now hemifphere; So ftupendous is that body of water, thet it has formed a gulf of fuch extert as to contain illends that rival our lile of Wight in fize and fertility; and with fuch refitslefs viulence does it rufh into the ocean, that in the tainy feafon the fea itflf, or at leaft its furface, is perfectly freft for many leagues out.?

SANDS, GocDwin, or Geduint, are dangerous fand banks

Suntra A Satids.

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Sindiwich Lakks jian of the coaft of Kent in England. See Kent.

SANDWICH, a town of Kent, and one of the cinque ports, having the title of an earldom. It confits of about 1500 houles, molt of them old, and buil! with wood, though there are a few new ones built with brick and flints. It has three long narrow ftreets paved, and thirty crofs-ftreets or alleys, with alout 6000 inhabitants, but no particular marufactory. The town is walied round, and allo fortified will ditches and ramparts; but the walls are much decayed, on account of the harbour being fo choked up with fand that a flip of 100 tons barthen cannot get in. E. Long. 1. 20. N. J.at. 51. 20.
S.ANDIFICH Iflands, a group of iilands in the South fea, lying near New Ireland, were among the lait difcoveries of Captain Cook, who fo named them in honour of the eatl of Sandwich, under whofe adminiftration thefe difcoveries were made. They confilt of 11 illands, extending is latitude from 18.54. to $22.15 . \mathrm{N}$. and in longitude from 150.54 . to 160.24 . WV. They are called by the natives, Owhinee, Mower, Rasa, Norotoi, 'Таноогоw, W' Wahoo, Atoor, Necheheow, Orechona, Morotinne, and Tahoora, all inhabited except the two laft. An account of the mofl remarkable of which will be found in their alphabetical order, in their proper places in this work. The climate of thefe infands differs very little from that of the Weft Inclies in the fame latitude, though perhaps more temperate; and there are no traces of thofe violent winds and hurricanes, which render the formy months in the Welt Indies fo dreadful. There is alfo more rain at the Sandwich illes, where the mountainous parts being generally enveloped in a cloud, fuccefive ftowers fill in the inland parts, with fine weather, and a clear Kky, on the fea Ghore. Hence it is, that few of thofe inconveniences, to which many tropical countries are fubject, either from heat or moifture, are experienced here. The winds, in the winter months, are generally from eaft fuuth-eaft to north-eaft. The vegetable productions are nearly the fame as thofe of the other iffands in this ocean ; but the taro root is here of a fuperior ouality. The bread-fruit trees thrive not in fuch abundance as in the rich plains of Otaheite, but produce double the quantity of fruit. The fugar-canes are of a very unufual fize, fome of them meafuring 11 inches and a quarter in circumference, and having ${ }_{1} 4$ feet eatable. There is alfo a root of a brown colour, fhaped like a yam, and from fix to ten pounds In weight, the juice of which is very fweet, of a pleafant tafte, and is an excellent fubftitute for fugar. The quadrupeds are confized to the three ufual forts, hogs, dogs, and rats. The fuwls are alfo of the common fort; and the birds are beautiful and numerous, though not various. Goats, pigs, and European feeds, were left by Captain Cook; but the poffefion of the goats foon gave rife to a conteft between two diftricts, in which the breed was entirely deftroyed. The inhabitants are undoubtedly of the faine race that poffeffes the iflands fou'h of the equator; and in their perfons, language, cuttoms, and manners, approach nearer to the New Zealanders than to their lefs diftant neighbours, either of the Society or Friendly Iflands. They are in general about the middle fize, and well made ; they walk very'gracefully, run nimbly, and are capable of bearing very great fatiguc. Many of both fexes have

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fine open countenances; and the women in particular Sandwich. have good cyes and teeth, with a fweetnefs and fenfibility of look, that render them very engaging. There is one peculiarity, characterific of every part of thefe iflands, that even in the handfomeft faces there is a fulnefs of the neflril, wifhout any flatnefs or foreading of the nofe. They fufter their beards to grow; and wear their hair after various faflions. The drefs of both men and women nearly refemble thofe of New Zealind, and both fexes wear necklaces of fmall variegated fhells. Tattowing the body is practifed by every colony of this nation. The hands and arms of the women are alfo very neatly marked, and they have the fingular cuftom of tattowing the tip of the tongue. Like the New Zeslanders, they have adopied the methat of living together in villages, containing from 100 to 200 houles, built pretty clofely together, witbout any order, and baving a winding path between them. They are gencrally flanked, towards the Sea, with detached walls, which are meant both for fhelter and defence. Thefe walls confift of looie ftones, and the inhabitants are very dexterous in flifting them fuddenly to fuch places as the ditection of the attack may require. In the fides of the hills, or furrounding eminences, they have alfo little holes, or caves, the entrance to which is alfo fecured by a fence of the fame kind. They ferve for places of retieat in cafes of extremity, and may be defended by a fingle perfon againtt feveral afiailonts. Their houfes are of different fizee, fome of them being large and commodions, from 40 to 50 feet long, and from 20 to 32 broad; while others are mere hovels. The food of the lower clafs confilts principally of filh and vegetables, to which the people of higher rank add the flefh of dogs and hoge. The manner of fpending their time admits of liule variety. They rife with the fun, and, after enjoying the cool of the evening, re'ise to reft, a few hours after funfet. The making of canoes, mats, \&c. forms the occupations of thie men; the women are employed in manufacturing eloth, and the fervants are principally engaged in the plantations and fifhing. Their idle hours are filled up with various amufemente, fuch as dancing, boxing, wrenling, \&ic. Their agriculture and navigation bear a great refemblance to thofe of the Southfea illands. Their plantations, which are fpread over the whole fea-coaft, confilt of the taro, or eddy-root, and fiveet potatoes, with plants of the eloth-trees fet in rows. The botoms of their canoes are of a fingle piece of wood, hollowed ont to the thicknefs of an inch, and brought to a point at each end. The fides confift of three hoards, each about on inch thick, neatly fitted and lafhed to the bottom part. Some of their double canoes meafure -0 feet in length, three and a half im depth, and twelve in breadth. Their cordage, filhhooks, and filhing-tackle, differ but little from thofe of the other iflands. Among their arts mult not be forgotten that of making falt, which they have in great ahundance, and of a good quality. Their inftruments of wap are fpears, daggers, clubs, and תlings; and for defenfive armonr they wear ftrong mats, which are not eathly penetrated by fuch weapons as theirs. As the iflands are not united under one fovereign, wars are frequent among them, which, no doubt, contribute greatly to reduce the number of inhabitants, which, according to the proportion affigned to each ifland, docs not exceed 400,000 . The fame fyftem of fubordination prevails

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Sa wich here as at the other iflands, the fame abfolute authority on the part of the chiefs, and the fame unrefifting fubmiffion on the part of the people. The government is likewife monarchical and hereditary. At Owhyhee there is a regular fociety of prielts living by themfelves, and diftinct in all refpects from the reft of the people. Human facrifices are here frequent; not only at the commencement of a war, or any fignal enterprife, but the death of every confiderable chief calls for a repetition of thefe horrid rites. Notwithftanding the irreparable lofs in the death of Captain Cook, who was here murdered through fudden refentment and violence, they are acknowledged to be of the moft mild and affectionate difpofition. They live in the utmolt harmony and friendflip with each other; and in hofpitality to frengers they are not exceeded even by the inhabitants of the Friendly Iflands. Their natural capacity feents, in no refpect, below the common flandard of mankind; and their improvements in agriculture, and the perfection of their manufactures, are certainly adequate to the circumftances of their fituation, and the natural advantages which they enjoy.

SANDYS, Sir Ediwin, fecond fon of Dr Edwin Sandys archbifhop of York, was born about 1561 , and educated at Osford under Mr Richard Hooker, author of the Ecclefiaflical Polity. In 158 s he was collated to a prebend in the cathedral of York. He travelled into foreign countries; and, upon his return, grew famous for learning, prudence, and virtue. While he was at Paris, be drew up a tract, publifhed under the title of Europee Speculum. In 1622 , he religned his prebend; and, the year following, was knighted by King James I. who employed him in leveral important affairs. He was dexterons in any great employment, and a good patriot. However, oppofing the court with vigour in the parliament held in 162 I , he, with Mr Selden, was committed to cuffody for a month. He died in 1629 , having bequeathed 15001 . to the univerlity of Oxford, for the endowment of a metaphyfical lecture.

Sandis, George, brother of the foregoing Sir Edxin, and youngett fon of Archbifhop Sandys, was born in $15 \% 7$. He was a very accomplithed man; travelled over feveral parts of Europe and the Eaft; and publified a relation of his journey in folio, in 1615. He made an elegant tranflation of Ovid's Metamorphoies; and compofed fome poetical pieces of bis own, that were greatly admired in the times of their being written. He alfo paraphrafed the Pfalms; and has left behind him a Tranflation, with Notes, of one Sacred Drama written originally by Grotivs, under the title of Cliriflus Patiens ; on which, and Adamus Exvul, and Mafenius, is founded Lauder's inmpudent charge of plagiarifin againft our immortal Miton. Our author became one of the privy chamber to Cl arles I , ar.d died in $16+3$.

SAN Ferkindn, near the entrance of the Golfo Dulce, in 15 degrees i 8 minutes north latitude, has lately Len furtified hy the Spaniards, for the purpole of checking the Mifiquito-min, lorwood-cutiers, and bay-men. It is a very sood fobsur, with isfe anchorage from the north and ealt winds, in ci lit fathoms wier.

S 1 NGUIFIC 47 TV, in the an unal recoromy, the cor verinio of le di, k i il true li, ond. Sce Pisoon. SANGUIND? S , WIVOD WOKT, a gemes of 1 lants
belonging to the polyandria clafs, and in the natural Sanguiformethod ranking under the 27 th ordcr, Rhacedec. See ba, Botany Index. The Indians paint themfclves yellow $\underbrace{\text { Sanhedrim. }}$ with the juice of thefe plants.

SANGUISORBA, GREATER wild burnet, a genus of plants, belonging to the tetrandria clais, and in the natural method ranking under the $54^{\text {th }}$ order, Mifcellanear. See Botany Index. The cultivation of this plant has been greatly recommended as food for cattle. See Burnet, Agriculture Index.

SANHEDRIM, or Sanhedrin, from the Greek word $\Sigma$ vvidgov, which fignifies a council or affembly of perfons fitting together, was the name whereby the Jews called the great council of the nation, affembled in an apartment of the temple of Jerufalem to determine the moft important affairs both of their church and fate. This council confifted of feventy fenators. The room they met in was a rotunda, half of which was built without the temple, and half within; that is, one femicircle was within the compafs of the temple; the other femicircle, they tell us, was built without, for the fenators to fet in; it being unlawful for any one to fit down in the temple. The Nafi, or prince of the fanhedrim, fat upon a throne at the end of the hall, having his deputy at his right hand, and his fub-deputy on his left. The other fenators were ranged in order on on each fide.

The rabbins pretend, that the fanhedrim has always fubfifted in their nation from the time of Mofes down to the deftruction of the temple by the Romans. They date the eftabliflment of it from what happened in the wildernefs, fome time after the people departed from Sinai (Numb. xi. 16), in the year of the world $25{ }^{1} 4$. Mofes, being difcouraged by the continual murmurings of the Ifraelites, addreffed himfelf to God, and defired to be relieved, at leaft, from fome part of the burden of the government. Then the Lord faid to him, "Gather unto me 70 men of the elders of Ifrael, whom thou knoweft to be the elders of the people, and off:cers over them; and britg them unto the tabernacle of the congregation, that they may ftand there with thee: And I will come down and talk with thee there; and I will take of the fpirit which is upon thee, and will put it upon them; and they fhall bear the burden of the people with thice, that thou bear it not thyfelf alone." The Lord, therefore, poured out his fpirit upon thefe men, who began at that time to prophecy, and have not ceafed from that time. The fanhedrim was compofed of 70 counfellors, or rather 72 , fix out of each tribe; and Mofes, as prefident, made up the number 73. To prove the uninterrupted fucceflion of the judges of the fanhedrim, there is nothing unattempted by the partifans of this opinion. They find a proof where others cannot fo much as perceive any arpearance or §hadow of it. Grotius may be confulted in many places of lis commentaries, and in his fitt book De jure belli et pacis, c. 3. art. 20. and Selden cie Synadriis veterkm IIcbracorum. Alfo, Calmet's D:lic tation concerning the polity of the ancient Hebrews, printed before his Comment upon thic Book on Nu:ar bers.

As to the perfonal qualifications of the juches of this bench, their binth was to be untainted. Itacy were oftet talken from the race of the pricfs or Levites, or out of t'e number of the infericr judgs, or from the

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Sanhedrim. leffer fanhedrim, which confifted culy of 23 judges. They were to be failful in the law, as well traditional as written. 'They were obliged to ftudy magic, divination, fortune-telling, phyfic, allrology, arithmetic, and languages. The Jews fay, they were to know to the mumber of 70 tongues; that is, they were to know all the tongues, for the Hebrews acknowledged but 70 in all, and perhaps this is too great a number. Eunuchs were excluded from the fanhedrim, becaufo of their cruelty, ufuress, decrepid perfons, players at games of chance, fuch as had any bodily deformities, thofe that had brought up pigeons to decoy others to their pigeonhoules, and thole that made a gain of their fruils in the fabbatical year. Some alfo exclude the high-prielt and the king, becaufe of their too great power; but others will have it, that the kings aluays prefided in the fanhedrim, while there were any kings in Ifrael. Laftly, it was required, that the members of the fanhedrim thould be of a mature age, a handfome perfon, and of confiderable fortune. We fpeak now according to the notions of the rabbins, without pretending to warrant their opinions.

The authority of the great fanhedrim was vafly extenfive. This council decided fuch caufes as were brought before it by way of appeal from the inferior courts. The king, the high-prieft, the prophets, were under its jurifdition. If the king offended againft the law, for example, if he married above 18 wires, if he kept too many horfes, if he hoarded up too much gold and filver, the fanhedrim had him ftripped and whipped in their prefence. Eut whipping, they fay, among the Hebrews was not at all ignominious; and the king bore this correction by way of penance, and himfelf made choice of the perfon that was to evercife this difcipline over him. Alfo the general affairs of the nation were brought before the fanhedrim. The right of judging in capital cafes belonged to this court, and this fentence could not be pronounced in any other place, but in the hall called Lafchat-haggazith, or the hall payed with fones, fuppofed by fome to be the Aifoscealos, or par ement, merrioned in John xix. 13 . From whence it came to pafs, that the Jews were forced to quit this hall when the power of life and death was taken out of their hands, 40 years before the deftruction of their temple, and th.ee years before the death of Je.is Chritt. In the tine of Moles this council was beld at the door of the tabernacle of the teftimony. $\Lambda$ s foon as the people were in poffeffion of the land of promife, the fanhedrim folloricd the tabernacle. It w.s kept fucceffiveiv at Gilgal, at Shiloh, at Kirjath-ycarim, at Nob, at Gibeon in the houfe of Obed-edom; and latly, it was fettled at Jerufalem, till the Babylonih captivi $y$. Daring the centivity it was kept up at Babylon. Aiter the raturn from Eabylon, it continued at Jerufalem to th time of the $S^{\prime}$ arii, or Aff:fins. Then find ing thet thefe proflizle are hes, whofe number increffel er--y d $y$, frotime eharma punilunerat to the favour oi the: prificent or $\mathrm{J}^{1}$ - es, $\mathrm{I}^{+}$was remord in Hanoth, wisich


 $\therefore$ degress ine itine temple. itie wards they removed




And this . the account the Jews themfelves give us of Sanhedrim, the fanhedrim.

But the learned do not agree with them in all this. Father Petau fixes the begiming of the fanhedrim not till Gabinius was governor of Judea, who, according to Jolephus, exceted tribunals in the five principal cities of Judea; at Jerufalem, at Gadara, at Amathus, at Jericho, and at Sephora or Sephoris, a city of Galilee. Grotius places the origin of the fanhed:im under Mofes, as the rabbins do; but he makes it determine at the beginning of Herod's reign. Mr Balnage at firlt thought that the fanhedrim began under Gabinius; but afterwards he places it under Judas Maccabrus, or under his brother Jonathan. We fee indeed, under Jonathan Maccabæus, ( 1 Macc. aii. 6.), in the year 3860 , that the fenate with the high-prielt fent an embafly to the Romans. The rabbins fay, that Alexander Janneus, king of the Jews, of the race of the Afmonæeans, appcared before the fanhedrim, and claimed a right of fitting there, whether the fenators would or not. Jofephus informs us, that when Herod was but yet governor of Galilee, he was fummoned before the lenate, where he appeared. It mult be therefore acknowledged, that the fanhedrim was in being before the reign of Herod. It was in being afterwards, as we find from the Gofpel and from the Acts. Jefus Chrift in St Matthew (v, 22.) diftinguithes two tribunals." Whofoever is angry with his brother without a caufe nlall be in danger of the judgement." This, they fay, is the tribunal of the 23 judges. " And whofoever fhall fay to his brother Raca, thall be in danger of the council; " that is, of the great fanhedrim, which had the right of life and death, at leaft gencrally, and before this right was taken away by the Romans. Some think that the jurifuiction of the council of 23 extended to life and death alfo; but it is certain that the fanhedrim was fuperior to this council. See aito Mark xiii. 9. xiv. 55 .xv. 1. ; Luke xxii. $5^{2}$, 66.; Jotn xi. $7^{-}$.; Acts iv. 15, v. 21. where mention is made of the lyncdrion or fanhedrim.

From all this it may be concluded, that the origin of the fanhedrim is involved in uncertainty ; for the council of the 70 elders eftablifhed by Mofes was not whit the Hebrews und-rfand by the name of fanhedrim. Befides, we cannot perceive that this eftablifhment fibfifted ei her under lolhua, the judges, or the kings. We find not ing of it after the captivity, till the time of Iznathan Maccaheus. The tri unals creeted by Gabini s were very diferent from the fanhedrim, which was lie fupreme court of judic ture, and fixed at Iertulirn; Wheres $C$ al inius eftablihed five at five di ere it coli. Laftry, I is certain that this fenate was in being in the time o' Jefus Chit ; but the Jews themill es infurm us that they 1 ad no longer th me the power of lise and death (Juhn xriii. 31.).

SINJ.1CKS, a people inhabitin? the Curüna-, or Perfan mountains, fublilling chieliy by plu. de, and the foeny pillice afforded bv their oris -tious c untry. कs Tley were much redo ed (Hye Ir Iver) by the l.ie ball aw $A \mathrm{c} \mathrm{mct}$ of Ragdad, in 20 pertued them in wri n to thit bleterrane $n$ retreats, sad $d=$
 ber of po ine 's, whis were fold $f$ if : : " Vemb...
 came fo daring that thy would att. in reme i*?

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S.:- men, and fometimes carry all off. They are faid to be worlhippers of the evil principle.

SAN Juan de Puerto Rico, ufually called Porto Rico, one of the Welt India illands belonging to Spain, is fituated in about 18. N. Lat. and between $65 \cdot 36$. and 67.45. V. Long. and is about 40 leagues long and 20 broad. The illand is beautifully diverffied with woods, valleys, and plains, and is extremely fertile. It is well watered with fprings and rivers, abounds with meadows, is divided by a ridge of mountains running from eaft to weft, and has a harbour fo fpacious that the largeft fhips may lie in it with fafety. Before the arrival of the Spaniards it was inhabited by 400,000 or 500,000 people, who, in a few years, were extirpated by its mercilefs conquerors. Kaynal fays, that its whole inhabitants amount at prefent only to 1500 Spaniards, Meftoes, and Mulattoes, and about 3200 negroes. Thus one of the fineft iflands in the Weft Indies has been depopulated by the cruelty, and left uncultivated by the indolence, of its poffeffors. But it is the appointment of Providence, who feldorn permits flagrant crimes to pafs unpunithed, that poverty and wretchednefs hould be uniform confequences of oppreflion.

SANICULA, SANicle, or Self-heal, a genus of plants belonging to the pentandria clafs, and in the natural method ranking under the $45^{\text {th }}$ order, U'mbellatic. See Botany Index.

SANIES, in Aledicine, a ferous putrid matter, iffuing from wounds. It differs from pus, which is thicker and whiter.

SANNAZARIUS, James, in Latin Actius Cincenis Sennaxarizs, a celebrated Latin and Italian poet, born at Naples in 1458 . He by his wit ingratiated himfelf into the favour of King Frederic; and, when that prince was dethroned, attended him into France, where he ftaid with him till his death, which liappened in I 504. Sannazarius then returned into Italy, viere he applied himfelf to polite literature, and particularly to Latin and Italian poetry. His gay and facetious humour made him fought for by all companies; tut he was fo afficted at the news that Phillibert prince of Orange, general of the emperor's army, had demolifhed his country houfe, that it threw him into an illnefs, of which he died in 1530 . It is faid, that being informed a few days before his death, that the prince of Orange was killed in battle, he called out, "I thall die contented, fince Mars has punifhed this barbarous enemy of the Mufes." He wrote a great number of Italian and Latin poems: among thofe in Latin, his De Partu Virginis and Eclogues are chiefly efteemed; and the moft celebrated of his Italian pieces is his Arcadia.

SANSANDING, a town in Africa, fituated near the banks of the Niger, in N. Lat. $14^{\circ} 24^{\prime}$ and $2^{\circ} 23^{\prime}$ W. Long. It is inlabited by Moors and Negroes to the number of from eight to ten thoufand. The Negroes are kind, hofpitable, and credulous; the Moors are at Sonlanding, as evelywhere elfe in the interior parts of At ica, fanztical, bigotted, and cruel.
S.ANI A Cruz, a large ifland in the South fea, and Que of the moft confiderable of thofe of Solomon, being
 S. L. 1, 1- 21 .

SAnta Cruz, or St Croix, a fmall and whealthy ifar.d, fituated in about 64 degrees weft longitude and

18 norih latiude. It is about eighteen leagues in length, and from threc to four in breadth. In 1643 it was inhabited by Dutch and Englith, who foon bat Raynal's came enemies to each other; and in 1650 were both Hylory of driven out by 1200 Spaniards, who arrived there in five and IIcfR flips. The triumph of thefe lafted but a few months. Indies, The remains of that numerous body, which were left vol. iv. for the defence of the ifland, furrendered without refift-p. 298. ance to 160 French, who had embarked in 1651 , frem St Chriftopher's, to make themfelves maiters of the illand.

Thefe new inhabitants loft no time in making thems felves acquainted with a country fo much difputed. On a foil, in other refpects excellent, they found only one river of a moderate fize, which, gliding gently almont on a lcvel with the fea through a tlat country, furnifhed only a brackilh water. Two or three fprings, whicte they found in the innermoft parts of the inland, made but feeble amends for this defeet. The wells were for the moft part dsy. The conftruction of refervoirs required time. Nor was the climate more inviting to the new inhabitants. The ifland being flat, and covered with old trees, fearcely afforded an opportunity for the winds to carry off the poifonous vapours with which its mos raffes elogged the atmofphere. There was but one remedy for this inconvenience: which was to busn the woods. The French fet fire to them without delay and, getting on board their fhips, became "fpectators from the fea, for feveral months, of the conflagration they had raifed in the ifland. As foon as the flames were extinguifhed, they went on fhore again.

They found the foil fertile bcyond belief. Tobacco, cotton, arnotto, indigo, and fugar, flourifhed iequally in it. So rapid was the progrefs of this colony, that in II yeas from its commencement there were upon it 822 white perfons, with a proportionable number of朖es. It was rapidly advancing to profperity, when fuch obitacles were thrown in the way of its activity as made it decline again. This decay was as fudden as its rife. In 1696 there were no more than 147 men, with their wives and children, and 623 blacks remaining; and thefe were tranfported to St Domingo.

Some obfcure individuals, fome writers unacquainted with the views of government, with their fecret negotiations, with the character of their minifters, with the interefls of the protectors and the protected; who flatter themfelves that they can difern the reafon of events amongit a multitude of important or frivolous caufes, which may have equally occafioned them; who do not conceive, that among all thefe caufes the mof natural may poffibly be the fartheft from the truth; who after having read the news, or journal of the day, with profound attention, decide as peremptorily as if they had been placed all their lifetime at the helm of the ftate, and had affitted at the council of kings; who are never more deceived than in thofe circumftance in which they difplay fome flare of penetration; writers as abfurd in the praifes as in the blame which they beftow upon nations, in the favourable or unfavourable opinion they form of miniferial operations: thefe idle dreamers, in a word, who think they are perfons of importance, becaufe their attention is always engaged on matters of confequence, being convinced that courts are always governed in their decifions by the mof comprehenfive views of profound policy, have fuppoled that the court

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San:s. of Verfuilles had neglected Santa Criz, merely becaufe they withed to abandon the fmall iflands in order to unite all their frength, indultry, and population, in the large ones; but this is a millaken notion. This determination arefe fiom the farmers of the revenue, who found that the contraband trade of Senta Cruz with St Thomas was detrimeatal to their interells. The firit of finace hath in all times been injurinus to commerce; it bath delircyed the fource from whence it fprang. Santa Cruz continved wishout inhabitants, and without celtivation, t:ll 1733 , when it was fold by France to Denmark for 30,7501 . Socn afier the Danes buit there the fortrels of Chritianfadt. Then it was that this northern power feemed likely to take deep root in America. Urfortunately, the laid her plantations under the yokz of exclafive privileges. Indutrious people of all rectz, particularly Noravinns, flrove in vain to svercome this great diticulty. Minny attempts were made is reconcile the interefts of the cobonifts and their oppreffor:, bat without fuccefs. The two parties kept ua a continual fraggle of animofity, not of induffy. At length the government, with a moderation not to be expected from its contitution, purchafed, in 1754, the privileges and effects of the company. The price was fixed at $412,5=01$. part of which was paid ia realy money, and the remainder in bil's upon the treaiury, bearing interelt. From this tine the navigation to the iflands was opened to all the fubjects of the Danih dominions. Of 345 plantations, whicin were feen at Santa Cruz, i $; 0$ were covered with figar cance, and crery havilation is limited to 3000 Daniih fect in length, and 2000 in breadth. It is inhasited by 213 white men, by 22,244 flaves, and by 150 freedmen.

## S.tivta Cruz, in Teneriffe. See Temeriffe.

SANTA Cruzs, a town of Africa, on the coalt of Barbaity, and in the province of Suez and kingdom of Morecco, with a larbour and a fort. The Moors took it from the Portuguefe in 1536 . It is feated at the extremity of Mount Atlac, on the Cape Aguer. W. Long. 10. 7. N. Lat. 30. 3 S .

Sintet Cruz de la Serra, a town of South America, and capital of a province of that name in Pera, and in the audience of Les Charcas, with a bilhnp's fee. It is feated at the foot of a movataia, in a country abounding in grod fruis, on the river Gaapy: W. Long. 59. 3 5. S. Lat. 20.40.

Stivtd Fe de Bogota, a town of South America, ard capitai of New Granada, with an archibilhop's ice, a fipreme court of juntice, and an univerfity.

The city is fituated at the foot of a fteep and cold mountain, at the entrance of a valt and fuperi) plain. I. 1774 , it contained 1770 hor es, 5246 familice, and 15,233 jnhabitents. Population mult neceffarily incrafe there, firse it is the fest of government, the place where the coin is friken, the flaple of trade ; and lafily, fince it is the reidence of an arcibilihop, whofe im. mediate jurididion extends over 31 Spanih villag :s, which are called towns; over tij) Indi in colunics, onciently fubdued; and over 28 milfins, ellaiblithed in modera tines. This archbinop hath ibikesvife, as metropolitan, a fort of infpection over the dioceies of ()uito, of Pa ama, of Carazeac, of St Martha, and of Carthagena. It is by this lait ilace, though at the difance 102 league, and hy the river Magdlena, that Sulla

Fe keeps up its communication with Europe. There Santaium are filver mines in the mountains about the cily. W. Long. 60. 5. N. Lat. 3. $\mathrm{j}^{8}$.

SANTALUN, a genus of plens belonging to the oqandria clafs; and in the natural method ranking with thofe of which the order is doubtful. See Botany Index.

SANTAREN, a handfome town of Portugal in Efremadura, feated on a mountain near the river Cajo, 55 miles N. E. from lifbon, in a country very fertilc in wheat, wine, and oil. They get in their basveft here two monlhs after they have fown their corn. It was taken from the Moors in $144^{\circ}$. W. Long. 3. 25. N. Lat. 39. 2.

SANIAUGUSTINE. Sce Augustine.
SANTEN, a town of Germany, in the circle of Wellphalia, and in the duchy of Cleves. It is feated on the Rhine, 15 miles S. E. from Cleves. It has a handfome church belonging to the Roman Cathelice, wherein is an image of the Virgin Mary, which it is pretended performs a great many miracles. Here the fine walks begin that run as far as Wefel, from which it is five miles diftant to the north-weff. E. Long. 6 . 33. N. Lat. 51.38 .

SINLERRE, the former name of a fmall territory of France, in Picardy; bounded on the nerth by Canibrefis, on the eaft by Vermandois, on the weft by Amienois, and on the fouth by the tiver Sonme. It is very fertile, and the capital town is Peronne.

SANTEUTL, or rather SANTEUL, John Buptist De, in Latin Santolius Viçorintes, an excellent Latin poct, was born at Paris in 1630 . Maving frifhed his thudies in Louls the Great's college, he applied himfelf entirely to psetiy, and celcbrated in his verfe the prailes of fever.l great men; by which he acquired univetfal applaufe. He enriched Paris with a great number of in:criptiens, which are to be feen on the public fountains, and the monumerats confecrated to potterity. At length, fome new hymns being to be compoled for the Breviary of Paris, Clatude Santeuil his brother, and M. Buticet, petfuaded him to undertake that work; and he fucceede. 1 in it whith the greate.t applaufe. On which the crder of Cligny defining him to enmpofe icme for their Isroviary, he c mplied with their requeit ; and that order, out of seati-ude, granted Lim letters of filiation, vi's an anoual remion. Santenil was careffed by all the learned men of his time; and had for his admirers the two princes of Conde, the father aril fon, from whom he frequactuly received favours. Leais XIV, alfo gave him a proof of his cficem, by bettowing a pention uron him. He attended the duke of Bowbon to Dijis, when that prince went thither in order to hod the Itates of Burgundy; and died there in 1697 , as h.e was preparing to return to Paris. Befides his Latin tymms, he wrote a great number of Lat in poems, which have all the fire and matks of genius difcovcrable in the wo:ks of great peets.

To Santauil we are indelued for many fine churchhymns, as above-menticred. Santeuil read the verfes he made for tire inhabitante of l:eaven widh all the agitatious of a demonids. Defreaux faid he was the' devil whom Goal compelled to praife laints. He was: among the momier of poct; whof genius was as impetuous as his mule has decerts.

La Bruyere has painted the character of this fingular and truly original poet in the moft lively colours. "Image a man of great feliciy of temper, complaifant and docile, in an inftant violent, choleric, paffionatc, and capricious. A man fimple, ciedulous, piayful, volatile, puerile; in a word, a child in gray hairs : but let him collect himfelf, or rather call forth his interior genils, I venture to fay, without his knowledge or privacy, what failies! what elcvation! what images! what latinity! Do you fpeak of one and the fame perfon, you will afk ? Yes, of the fame; of Theodas, and of him alone. He fhrieks, lie jumps, he rolls upon the ground, he roais, he forms ; and in the midft of this tempert, a flame iffues that fhines, that rejoices. Without a figure, he rattles like a fool, and thinks like a wife man. He utters truths in a ridiculous way; and, in an idiotic manner, rational and fenfible things. It is altonilhing to find good fenfe difclofe it felf from the bofom of buffoonery, accompanied with grimaces and contortions. What fhall I fay more? He does and he fays better tha: he knows. Thele are like two fouls that are unacquainted with each other, which have each their turn and feparate functions. A feature would be wantin, in this extraordinary portrait, if I omitted faying, that he has at once an infatiable thirft for praife, ready to throw himfelf at the mercy of the critics, and at the bottom fo docile as to profit by their cenfure. I begin to perfuade myfelf that I have been drawing the portraits of two dififerent perfons : it would be impoffible to find a third in Theodas; for he is a goodman, a pleafant man, an excellent man."

This poet ought not to be confounded with Claude de Santeuil, his brother, a learned ecclefiaftic, who alfo wrote feveral hymns in the Paris Breviary, under the name of Santolius Maglioranus, a name given him from his having lived a long time in the feminary of St Magliore at Paris, in quality of fecular caclefialtic. He was efteemed not only for his poetical abilities, but allo for his profound erudition and his exemplary picty. He wrote feveral other pieces of poetry, befides his hymns, which are printed with his brother's works.

SANTILLANE, a fea-port town of Spain, in the province of Afturias, of which it is the capital. It is feated on the fea-coaft, 55 miles eaft of Oviedo, and 200 north-weft of Madrid. W. Long. 4. 33. N. Lat. 43. 30.

SANTOLINA, IAVENDER-Cotton, a genus of plants belonging to the fyngenefia clafs; and in the natural method ranking unoer the q9th order, Compsfitu. See Botany Index.

SANTORINI, or Sastoris, an ifland of the Archipelago, to the north of Candia, and dillant from it about 90 le sues, ind to the fouth-weft of Nanphio. It is eight miles in lergth, and nearly as much in breadth, and almoft covered with pumice-fone, whence the foil in general muft be dry and barren; it is, however, greally inuproved by the labour and induftry of the inhabitants. "ho have turned it into a garden. It affords a great deal of arley, plenty of cotton, and large quan. tities of wise. Fruit is fcarce, except almonds and figs; and there is neither oil nor wond. The partridge and the hare, fo con.mon in the other illands of the Ar. chipelago, are feric at Santorin; but quails are mict with is abundance. The inhabitants are all Greeks, and are about 10,000 in tumber. Pyrgos is the capital
town, befide which, there are feveral little town and villages. There is tut one fpring of water in the inland, for which reafon the main-water is prefervca in cifterns. Though fubject to the Turks, they choofe their own magiifrates. E. Long. 25. 5. N. Lat. 39. 10.
Sanizo, Raphael. See Raphael.
SAO, a territory, called a kingdom, of Africa, on the Gold-coatt of Guinea, hardly two miles in length along the thore. It produces abundance of Indian corn, yame, potatoes, paim-wine, and oil. The inhabitants are very treacherous, and there is no dealing with them without great caution. It contains feveral villages, of which Sabo is the principal.

SAONE, a confiderable river of France, which has its fource in Mount Vofgue, near Darney ; runs through the Franche Comte, Burgundy, Beaujolois; and falls into the Rhone at Lyons. It paffes by Gray, Chalons, and Mafion.
SAP, the juice found in vegetables.
We obferved, when treating of Plants, that it has becn long difputed whether the fap of plants be analogous to the blood of animals, and circulates in the fame manner. We allo mentioned the conclutions that Dr Hales drew from his numerous experiments, which were all in oppofition to the doctrine that the fap circulates.

Dr Walker, late profeffior of Natural Hiftory in the univerfity of Edinburgh, has publifhed, in the Ift volume of the Philofophical Tranfactions of Edinburgh, an account of a courfe of experiments on this fubject, accompanied with fome obfervations and conclufions.

It is well known that in the fpring regetables contain a great quantity of fap; and there are fome trees, as the birch and plane, which, if wounded, will difcharge a great portion of it. Whence is this moifture derived? Whether is it imbibed from the atmofphere, or does it flow from the foil through the roots? Thefe are the queftions which require firt to be anfwered; and $\mathrm{Dr}_{\mathrm{r}}$ Walker's experiments enable us to anfwer them with confidence.

He felected a vigorous young birch, 30 feet high and 26 inches in circumference at the ground. He bored a hole jult above the ground on the ift of Fe bruary, and cut one of its branches at the extremity. He repeated this every fecond day; but no moiffure appeared at either of the places till the 5 th of May, when a fmall quantity flowed on making an incifion near the ground. He then cut 21 incifions in the trunk of the tree, on the north fide, at the diftance of a foot from one another, and reaching from the ground to the height of 25 feet. The incifions were folid triangles, each fide being an inch long and an incli deep, and penetrating through the bark and wood. Dr Walker vifited the tree almoft every day for two months, and marked exactly from which of the incifions the fap flowed. He obferved that it flowed from the loweft incifion frft, and gradunlly -「cended to the ligheft. The following table will thow the progrefs of the fap upwards, and its correfpondence with the thermometer.

The firt column is the day of the month on which the obfervation was made; the fecond expreffes the number of incifions from which the f.pflowed on the day of the month oppofite; and the third column the degrec of the thermomeier at noon. Some days are onitted in March, as the incifions, thoush made on the 5th, did not bleed till the 12th. Some days are alice $\underbrace{\text { S: }}$

## S A P [ 4.7 ] S A P

5xp. paffed ove: in $\Lambda$ pril, becaufe no oufervation was made on account of rain.

| March. | N. of In. Ther Noun. | March | N. of In. Ther. Noon. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | - | 45 | 30 | 8 | 50 |
| 11 | 2 | 49 | 31 | 7 | 62 |
| 12 | 2 | 49 |  |  |  |
| 12 | 1 | 44 | April | 2 | 7 |
| 3 | 4 | 48 | 4 | 10 | 53 |
| 14 | 4 | 42 | 7 | 11 | 49 |
| 15 | 5 | 52 | 8 | 11 | 48 |
| 16 | 5 | 47 | 9 | 12 | 50 |
| 17 | 4 | 44 | 10 | 13 | 53 |
| 15 | 5 | 47 | 11 | 13 | 45 |
| 19 | 6 | 48 | 12 | 13 | 44 |
| 20 | 5 | 44 | 12 | 13 | 13 |
| 21 | 7 | 48 | 13 |  |  |
| 22 | 7 | 45 | 14 | 14 | 55 |
| 23 | 8 | 46 | 15 | 14 | 49 |
| 24 | 9 | 47 | 16 | 16 | 56 |
| 25 | 9 | 42 | 18 | 16 | 50 |
| 26 | 7 | 39 | 19 | 17 | 54 |
| 27 | 8 | 45 | 20 | 19 | 56 |
| 28 | 8 | 49 | 21 | 20 | 54 |
| 29 | 8 | 46 | 22 | 21 | 52 |

Dr Walker found that the fap afcends through the wood, and ftill more copioufly hetween the wood and the bark ; but none could be perceived alcending through the pith or the bark. He foond allo, that when the thermometer at noon is about 49 , or between 46 and 50 , the fap rifes about one foot in 24 hours; that when the thermometer is about 45 at noon, it afcends about one foot in two days; and that it does not afcend at all unlefs the mid-day heat be above 40 . He obferyed that it moves with more velocity through young than through old branches. In one young branch it moved through feven feet in one day, the thermometer being at 49, while it moved in the trunk of the tree only feven feet in feven days. Dr Walker has thus explained the reafon why the buds on the extremities of branches unfold firft becaufe they are placed on the youngeit wood, to which the fap flows moit abundantly.

The effects produced by the motion of the fap deferve to be attended to. In thofe parts to which it has mounted, the bork eafily feparate from the wood, -and the ligneous circles may, without difficulty, be detached from one another. The buds begin to fwell and their fcales to feparate, while thofe branches to which the fap has not afcended remsin clofely folded. When the fap has reached the extremities of the branches, and has thus pervaded the whole plant, it is foon covered with opening buds and ceafes to bleed. The bleeding ceafes firt in the upper parts of the tree, and in the lower parts fucceffively doswnwards, and the wood becomes dry. An inverted branch flows more copioully when cut than thofe which are erect. This is a proof that the afcent of the fap is not occafioned by capillary attraction, for water which has rifen in a fmall glafs tube by this attraction will not defcend when the tube is inverted.

It is evident that there is an intimate connection between heat and the afcent of the fap. It did not begin to flow till the thermometer food at a certain point: when it sell below 40, it was arrefted in its progrefs. The fouth fide of the tree, when the fun was bright,

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bled more profufily than the north fide and at funfet the incifions at the top ceated to blece', where it was expofed moll to the cold air, while it ftill continued to $\qquad$
$\underbrace{\text { Sappers. }}$ flow from the incitions next to the ground; the ground retaining its heat longer than the air.

SAP, in fieges, is a trench, or an approach made under cover, of $1=$ or 12 feet broad, when the iefiegers come near the place, and the fire from the garriton grows fo dangerous that they are not able to approach uncover-ed.-There are leveral forts of faps; the fingle, which has only a fingle parapet; the double, having one on each fide; and the flying, made with gabions, \&cc. In all faps traverles are left to cover the men.
Sap, or Sapp, in building, as to lap a wall, \&c. is to dig out the ground from beneath it, fo as to bring it down all at once for want of fupport.

SAPHIES, a kind of charms, confifting of fome fcrap of writing, which the Negroes believe capable of protecting them from all evil. The Moors lell fcraps of the Koran for this purpofe; and indeed any piece of writing may be fold as a faphie; but it would appear that the Negroes are difpofed to place greater confidence in the faphies of a Chriftian than in thofe of a Moor.

When Mr Park was at Koolikorro, a confiderable tuwn near the Niger, and a great market for lalt, his landlord, hearing that he was a Chriftian, immediately thought of procuring a faphie. For this purpole he brougit out his walha, or writing board, affuring me (fis cur author) that he would drefs me a fupper of rice is I would write him a faphie to protect him trom wicked men. The propofal was of too great conferuence to me to be refufed; I therefore wrote the board full, from top to bottom, on both fides; and my landlord, to be certain of having the whole force of the charm, wafled the writing from the board into a calabafh with a little water; and having faid a few prayers over it, drank this powerful draught; after which, lelt a fingle word flould cleape, he licked the board until it was quite dry. A faphie witer was a man of too great confequence to be long concealed : the inportant information was carried to the Douty, who fent his ton with half a theet of writing-paper, defiring me to write him a naplula faplite (a clarm to procure wealth). He brought me, as a prefent, fome mcal and nilk; and when I had finithed the faplie, and, end it to him with an audible voice, he fecmed liighly fatisfied with his bargain, and promifed to bring me in the morning fome milk for my breakfaft.

SAPINDU'S, the SOAP-BERRY TREL, a g mus of plants belonging to the octandria clafs; and in the natural method ranking under the 23 d order, Trilitatuc. See Botany Index.

SAPONA[RIA, Sormwort ; a genus of plants belonging to the decandria clafs; and in the natural me. thod ranking under the 22 d order, Caryoplullest. See Sce Botixy Index.

SAPOR, Taste. See T.aste, and Anatou:, $\mathrm{N}^{\mathrm{o}}{ }_{1} 39$.

Sapota pllah. See Achras, motasy In. dex.
S. 4 PPERS, are foldiers belonging to the royal artillery, whole bufinefs it is to work at the faps, for which: they have an extraordinary pay. A brigade of fappergenerally" confits of eigit men, divided equally into two 3 R
parties

## $S \mathrm{~A} P$

Sapphira parties; and whilt one of thefe parties is advancing
Sappho. the fap, the other is furnifhing the gabions, fafcines, and other neceflary implements. They relieve each other alternately.

SAPPHIRA, was the wife of a rich merchant in Gucldres, and equally diftinguifhed for her beauty and her virtue. Rhinfauld, a German officer, and governor of the town of Gueldres, fell in love with her ; and not being able to feduce her either by promifes or prefents, he imprifoned her hufband, pretending that he kept up a traiterous correfpondence with the enemies of the flate. Sapphira yielded to the paffion of the governor in order to relieve her hufband from chains; but private orders had already been given to put him to death. His unlappy widosv, overwhelmed wilh grief, complained to Cliarles duke of Purgundy. He ordered Rhinfauld to marry her, after having made over to her all his poffeffions. As foon as the deed was figned, and the marriage over, Charles commanded him to be put to death. Thus the children of a wife whom he had feduced, and of a hufband whom he had murdered, became lawful heirs to all his wealth.

SAPPHIRE, a fpecies of precious fone, of a blue colour. See Mineralogy Index.

SAPPHO, a famous poetefs of antiquity, who for her excellence in her art has been called the Tenth Mule, was born at Mitylene, in the ifle of Lefbos, about 610 years before Chrift. She was contemporary with Stefichorus and Alcæus; which laft was her countryman, and fome think her fuitor. A verfe of this poet, in which he infinuates to her his paffion, is preferved in Ariztotle, Rhet. lib. i. cap. 9. together with the fair damfel's anfwer.

Alc. I fain to Sappho would a wifh impart, But fear locks up the fecret in my heart.
S.tp. Thy downcatt looks, refpect, and timid air, Too plain the nature of thy wifh declare. If lawlefs, wild, inordinate defire, Did not with thoughts impure thy bofom fire, Thy tongue and eyes, by innocence made bold, Ere now the fecret of thy foul had told.
M. la Fevre obferves, that Sappho was not in her ufual good humour when the gave fo cold an anfwer to a requeft, for which, at another time, perhaps fhe would not have waited.- It has been thought, too, that Anacreon was one of her lovers, and his editor Barnes bas taken fome pains to prove it: but chronology will not admit this; fince, upon inquiry, it will be found that Sappho was probably dead before Anacreon was born. Of the numerous poems this lady wrote, there is nothing remaining but fome finall fragments, which the ancient fcholiafts have cited; a hynn to Venus, preferved by Dionyfus of Halicarnaffus; and an ode to one of her miftrefles * : which latt piece confirms a tradition delivered down from antiquity, that her amorous paffion extended even to perfons of her own fex, and that the was willing to have her miftreffes as well as her gallants.

Ovid introduces her making a facrifice to Phaon, one of her male paramours: from which we learn, that Sappho's love for her own fex did not keep her from loving ours. She fell defperately in love with Phaon, and did all fhe could to win him ; but in vain : upon which the threw herfelf headlong from a rock, and died.

It is faid that Sappho could not forbear foliowing Phaon into Sicily, whither he retired that he might not fee her ; and that during her flay in that ifland the probably compofed the hymn to Vents, fill extant, in which fhe begs fo ardently the affiftance of that goddefs. Her prayers, however, proved ineffectual: Phaon was cruel to the laft degree. The unfortunate Sappho was forced to take the dreadful leap; the went to the promontory Leucas, and threw herfelf into the fea. The cruelty of Phaon will not furprife us fo much, if we reflect, that fle was a widow (for the had been married to a rich man in the ille of Andros, by whom fhe had a daughter, named Cleis) ; that the had never been handome; that fhe had obferved no meafure in her paffion to both fexes; and that Phaon had long known all her charms. She was, however, a very great wit, and for that alone deferves to be remembered. The Mitylenians held her merit in fuch high efteem, that they paid her fovereign honours after her death, and ftamped their money with her image. The Romans afterwards erected a noble ftatue of porphyry to her ; and in ftort, ancients as well as moderns have done honour to her memory. Voffius fays, that none of the Greek poets excelled Sappho for fweetnefs of verfe; and that the made Archilochus the model of her ftyle, but at the fame time took care to foften the feverity of his expreffion. It mult be granted, fays Rapin, from what is left us of Sappho, that Longinus had great reafon to extol the admirable genius of this woman ; for there is in what remains of her fomething delicate, harmonious, and impaffioned to the laft degree.

SARABAND, a mufical compofition in triple time, the motions of which are flow and ferious.

Saraband is alfo a dance to the fame meafure, which ufually terminates when the hand that beats the time falls; and is otherwife much the fame as the minuet.

The faraband is faid to be originally derived from the Saracens, and is ufually danced to the found of the guitar or caftanettes.

SARACA, a genus of plants belonging to the diadelphia clals. See Botany Index.

SARACENS, the inhabitants of Arabia; fo called from the word faru, which fignifies a defert, as the greatelt part of Arabia is ; and this being the country of Mahomet, his difciples were called Saracens.

SARACOLETS, a Negro nation occupying the country between the rivers of Senegal and Gambia. They are a laborious people, cultivate their lands with care, are plentifully fupplied with all the neceffaries of life, and inhabit handfome and well built villages; their houfes, of a circular form, are for the moft part terraced; the others are covered with reeds as at Senegal : they are inclofed with a mud wall a foot thick, and the villages are furroukded with one of ftone and earth of double that folidity. There are feveral gates, which are guarded at night for fear of a furprife. This nation is remarkably brave, fo that it is very uncommon to find a Saracolet flave. The religious principles of this pcople are nearly allied to Mahometanifm, and fill more to natural religion. They acknowledge one God; and believe that thofe who fteal, or are guilty of any crime, are eternally punifhed. They admit a plurality of wives, and believe their fouls to be immortal like their own. The extent of this country is unknowa. It is governed by four powerful princes, all bearing the

Suracolets name of Fuquet. The leaft confiderable, according to the telumony of the Saracolets, is that of Tuago, who can aflemile 30,000 horfe, and whofe fubjects occupy a tertitory two hundred leagues in cxtent, as well on the Senegal as on the tract that reaclies bcyond the Fclou; a rock which, according to the fame report, forms cutaracts, from whence proceed the Senegal and the river Gambia, equally confiderable.

SARAGOSSA, a city of Spain, in the kingdom of Arragon, with an archbithop's fee, an univerfity, and a court of inquifition. It is faid to have been built by the Phoenicians; and the Romans fent a colony here in the reign of the emperor Augullus, whence it had the name of Carfar Ausuflus, which by corruption lias been changed into Saragofla. It is a large, handfome, and well-built town. The ftreets are long, broad, well paved, and very clean, and the houfes from three to fix ftories high. It is adorned with many magnificent buildings; and they reckon 17 large churches, and 14 handfome monalteries, not to mention others lefs confiderable. The river Ebro runs crofs the place, dividing it into two ; and on its banks is a handfome quay, which ferves for a public walk. The Holy-ltreet is the largelt, and fo broad that it may be taken for a fquare ; and here they bave their bull-fights: in this freet there are feveral noblemen's families, particularly that of the viceroy. The convents are bandfome and richly adorned, as well as the churches. The cathedral church is a fpacious building, after the Gothic tafte; but the fineft church is that of Nueftra Signora del Pilar, feated on the fide of the Ebro, and is a place of the greateli devotion in Spain. They tell us the Virgin appeared to St James, who was preaching the gofpel, and left him her image, with a handfome pillar of jafper : it is ftill in this church, which they pretend is the firft in the world built to her honour. This image ftands on a marble pillar, with a little Jefus in her arms; but the place is fo dark, that it cannot be feen without the affittance of lamps, which are 50 in number, and all of filver. Thefe are alfo chandeliers and baluftrades of mafly filver. The ornaments of this image are the richeit that can be imagined, her crown being full of precious ftones of an ineftimable price ; in flort, there is farce any thing to be feen but gold and jewels, and a vait number of people come in pilgrimage hither. The town-houfe is a fumptuous ftrukture, adorned with fine columns: in the hall are the p.etures of all the kings of Arragon; and in a corner of it St George on horfeback, with a dragon of white marble under him. It is feated in a very large plain, where the Ebro receive; two other rivers; and over it are two bridges, one of flone and the other of wood, which lalt has been thought the moft beautiful in Europe. A rictory was obtained here over the French and Spaniards in 1710 , but it was abandoned by the allies foois after. It is 97 miles weft by north of Tar a zona, 1.37 weit of Bercel na, and 1 so nor'h.eaft of Madrid. WY', Long. 0.48. N. Lat. +1. +7 .

## SARANNE. See LhIUM.

SARCASM, in Rhcrevic, a keen bitter exprefion which las the tr $10^{\circ}$ of fire, by whith the orator fcoffs.and infu! s his e:-17: fuch as that of the It is to our Saviour; "He lavel ohers, himfelt he cannot Save."

S $\triangle$ RCAGEI F , in S.rsery, a fparinus rupture or Sosrnia, wherein the telticls is confiderably twanefied or
indurated, like a fcierhus, or much enlarged by a $:$. Shy Saze wil'a excrefience, which is trequently atterded with acute pains, fo as to degenerate at lalt intu a calicerous difo fition. See Surgery.

SAliCOCOLLA, a concrete juice brought from Perfia and Arabia, in fmall whitish-yellow grains, with a few of a reddifl and iometrmes of a decp red colour mixed with them; the whitent tears are preferred, ay being the fictheft: its talle is bitier, accompanied with a dull kind of fweetnefs. See Chemisiky.

SARCOLOGY, is that part of anatumy which treats of the fuft parts, viz. the mulcles, inteltines, arteries, veins, nerves, and fat.

SARCOMA, in Surgery, denotes any fiefly excrefcence.

SARCOPHAGUS, in antiquity, a fort of fone coffin or grave, wherein the ancients depofited the bodies of the dead which were not intended to be burnt.

The word, as derived from the Greck, literally fignifies fle/b-eater; becaufe originally a kind of ftone was ufed for tombs, which quackly confumed the bodies. See the following article.

One of the moft celebrated fpecimens of antiquity is the great farcophagus, which is commonly called the tomb of Alexander the Great. It fell into the hands of the Britifh at the capitulation of Alexandria in Egypt in 1801, is now depofited in the Britifh Mufeum, and is thus defcribed by a writer in the Munthly Magazine*. Vol. xxvito
" It was brought from the mofque of St Athanafins, p. 42. at Aiexandria, where it had been transformed, by the Mahometans, into a kind of refervoir, confecrated to contain the water for their pions ablutions. It is of confiderable magnitude, and would form an oblong rectangle, were not one of the ends or thorter fides of the parallelogram rounded fomewhat like a bathing tub. It is probable that formerly it was covered with a lid, but no trace of it is now vifible; but is entirely open like an immenfe laver, of one fingle piece of beautiful marble, fpotted with green, yellow, reddifh, \&ic, on a ground of a fine black, oi the fpecies called breccia, a fort of pudding fone, compofed of agglutinated fragments of various fizes, which are denominated accord. ing to their component parts. This comes under the clafs of calcareous breccias. But what renders this magnificent fragment of antiquity peculiarly interelting, is the prodigious quantity of fmall hierogly phic characters, with which it is fculptured bath within and without, as you may perceive by the figure. It would employ me nearly a month to make faithful copies of them: their fhape and general appearance is pretty fairly given in the figure; but it can only ferve to cunvey to

## Plate

 you an ider of the monument in ene viess. A correct and fathlul copy of all the hierogiyphics, though an Herculean tak, is a defideratum; for it can be only by copying with fcrupulous accur oy, and of a large fize, the figeres of this fymbolical 1 ng ngge, thet we can attain the krowledge of a myllerious compofition, on which depends that of the hilti y of a cruntry, unce fo highiy celcbrated. When that langu ie flall be undorioot, w: may peri/ps learn the original purpofe of this Satcophacus, and the hillory of the puifint mom whole fpoils it con sined. Till then it is but the - in and A: ting fi 'do. con ject ife" Many men of fience and learning, have exam ".d this memento of Ebyptian fill and indullyy ; but no
pofitive

## S A R , [ 500 ] S A R

S. .ppha- pulfe decition of its former application is yct \{ound by gus. the learned. Somini and Denon, who both clofely and attentively examined it, have pronounced nothing decifive on the fubject. De Clark of Cambiridere, an indefatigable and learned antiquary, has afferted that the farcophagus of the mufeum really was the tomb of Acxander; but it requires more tale:ts than I poffef, to remove the obflacles that withftand the clear inteli:gibility of this invaluable antique."
S.arcorthaus, or Lapis Afiur, in the natural hiffory of the ancients, a ftote much ufed among the Greeks in their fepultures, is recorded to have zlways perfectly confurmed the Helh of human bodies buried in it in forty days. This property it was much famed for, and all the ancient naturalifls mention it. There was another very fingular quality alfo in it, but whetber in all, or only in fume peculiar pieces of it, is :oot known: that is, its turning into ftone any thing that was put into vefiels made of it. This is recorded only by Mutianus and Theophrallus, except that Pliny kad copied it from thr fe authore, and fome of the later writers on thefe fubjeats from him. 'The account Mutianus gives of it is, that it converted into fone the thoes of perfons buried in it, as al:o the utenfis which it. was in fome places cuftomary to bury with the dead, particularly thofe which the perfon while living mott celighted in. The utenfle this author mentions, are fucli as mult have been made of very different materials; and hence it appears that this flone had a power of confuming not only flefh, but that its petrifying quality extended to fubitances of very different kinds. Whether cver it really poffeffed this laft quality has been much loubted; and many, from the feeming improbability of it, have been afraid to record it. What has much encouraöd the general difbelief of it is, Mutians's account of its taking place on fubifances of very different kinds and textures; but this is no real objection, and the whole account has probably truth in it. Petrifactions in thofe early days might not be diftinguified from incruflations of fparry and ftony matter on the furfaces of bodies only, as we find they are not with the generality of the world even to this day; the incruftations of fpar on moffes and other fubflances in fome of our fprings, being at this time called by many petrified mofs, \& $c$. and incrutations like thefe might eafily be fornued on fubflances enclofed in veffls made of this fone, by water paffing through its pores, diflodging from the common mafs of the fone, and carrying with it particles of fucb fpar as it contained; and afterwards falling in repeated drops on whatever lay in its way, it might again depofit them on fuch fubflances in form of incruflations. By this means, things made of ever fo different matter, which happened to be inclofed, and in the way of the paffage of the water, would be equally incruffed with and in appearance turned into fone, without regard to the different configuration of their pores and parts.

The place from whence the ancients tell us they had this flune was Affos, a city of Lycia, in the neighbourhood of which it was dug; and De Boot informe us, that in that country, and in fome parts of the Eaft, there are alfo Rories of this kind, which, if tied to the bodies of living perfons, would in the fame manner confume their flch.' Hill's Notes on Theophrafus, p. 4.

SARCOTICS, in Surgery, medicines whith are fup. Saroties pofed to generate lieht in wounds.

SARDANAPALUS, the laft king of Afyria, whofe character is one of the molt infamous in hiltory. He is faid to have funk fo far in depravity, that, as tar as he could, he changed his very fex and nature. He clothed himlelf as a svoman, and djun amidft companies of his concubines. He painted his face, and behated in a more lewd manner than the moft lalcivious harlot. In fhort, he buried himfelf in the moft unbounded fenfuulity, quite regardlels of fex and the dictates of nature. Having gown odious to all his fubjects, a rebellion was formed againft him by Arbaces the Mede aud Belefis the Babylomian. They were attended, however, with very bad fuccefs at firit, being defeated with great flaughter in three pitched battles. With great difficulty Belefis prevailed upon his men to keep the field orixy five days longer; when they were joined by the Bachians, who had come to the affiftance of Sardanapalus, but had bcen prevailed upon to renounce thcir allegiance to him. With this reinforcement they twice deteated the troops of Sardanapalus, who fhut himfelf up in Ninevch the capital of his empire. The city held out for three tears; at the end of trhich, Sardanapalus finding himfelf unable to hold out any longer, and dreadng to fall into the hands of an enraged enemy, retied into his palace, in a court of which he caufed a vall pile of wout to be raifed; and heaping upon it all his gold and filver, and royal apparel, and at the fanre time incloting his eunuchs and concubines in an apartment within thic pile, he fet fire to it, and fodeftroyed himbelf and all together.

SARDINIA, an ifzad of the Mediterranean, botinded by the flrait which divides it from Corfica on the north; by the Tufcan fea, which flows between thisifland and Italy, on the eaft ; and by other pais of the Mediterrancan fea on the fouth and welt. It is about 140 miltes in length and 70 in breadth, and contaiis420,000 inhatitanis. The evence rites chictly from a duty upon falt, and is barely fufficient to defray the expences of government ; but it certainly might be eenfiderably augmented, as the foil produces wine, cori, ard oil, in abundance. Moft of the falt that is exported is taken by the Danes and Swedes; the Englifh formerly took great quautitics for Newfoundland, but having found it more convenient to procure it from Spain and Portugal, they now take little or none. A prcfitable tumny fifhery is carried on at the fouth welt part of the ifland, but it is monopolized by the proprictors of the adjoining land. Wild boars abound in the hilly parts of the ifland, and here are fome few deer, not fo large as thofe in Britain, but in colour and make c.iaal!y the fame. Beeves and flisep are alfo common, as well as horfes.

The feudal fyftem fill fubfifts in a limited degree, and titles go with their effates, fo that the parchafer of the latter inherits the former. The regular troops feldom exceed 2000 men; but the militia amount to near 26,000 , of whom 11,050 ate cavalry. Their hories are fmall, but uncommonly active. In a charge, we Rould beat them; but, on a march, they would be fuperior to us. The country people are generally armed; hut notwithftanding their having been fo long under the Sfanifh and Italian government, affaflinations are by n? means frequent ; and yet hy the laws of the country, if

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 in fos tours afie quarsell ng with him, he is not liable to be hauged. Oar e other hand, the charch afords no prosection to the guilty. The Sardinians are not at all Lizotted; and, nest to the Spaniards, the Englifh are their favourites. This infand was fomme:ly fubject to the tuke of Savoy, who $e$-joyed the title of king of Sardinia. See Cagliaki. It is movy under the dominion of the Fremel?.

There is in this intand a pleafing variety of hills and valleys, and the foil is generally fruifful; but the inhatitants are a flothful genevation, and cultivate but a litthe part of it. Oa the coalt there is a finiery of anchovies and coral, of which they fend large quantives to Genoa and Leghorn. This illand is divided into two patts; the one, called Capo di Cagliari, ties to the fouth; and the oiher Capo di Lusary, which is feated to the north. The principal towns are Cagliari the capita, Oriftagno, and Seflari.

SASDiS, or Sardes, now culled Sards, or Sar:, is an ancient town of Natolia in Afia, alout 40 miles eatt of Suryrna. It was much celebrated in early antiquity, was enviched by the iertility of the foil, and had been the capital of the Lydian kings. It was feated on the fide of Mount Tmolus; and the citadel, placed on a lofty hill, was remarkable for its great flength. It was the feat of King Creefus, and was in lis time taken by Cyrus; after which the Perfian fatrapas or commandart refided at Sardis as the emperor did at Suli. The city was alfo taken, burnt, and then evacuated by the Milefians in the time of Darius, and the city and fortrels furrendered on the approach of Alexander after the battle of Granicus. Under the Romans Sardis was a very confiderable place till the time of Tiberius C iar, when it fuffered prodigioully by an earthquake. The munificence of the empero-, however, was nobly exerted to repair the various damages it then fuftained. Iulian attempied to reilore the heathen worfhip in the place. He ere\{ted temporary altars where none had bren left, and repaired the tempies if any velliges remaincd. In the year 400 it was plundered by the Goths, and it fuffered confiderably in the fubfequent troubles of Afia. O. 1 the incurfion of the Tartars in 1354 , the Iurks were permitted to occupy a portion of the citadel, reparated by a ftrong wall with a gate, and were afterwards murdcred in their lleep. The fite of this oncenoble city is now green and flowery, the whole being reJuced to a noor village, containing nothing but wretched huts. There are, however, fome curious remains of antiquity about it, and fome ruins which difplay its ancient grandeur. See Chandler's Travels in Affa AFinor, p. 25i, \&ec.

There is in the place a large caravanfary, where travellers may conmodioully lodge. The inhabitants are generally hepherds, who lead their sheep into the fine paftures of the neighbouring plain. The Turks have a mofque here, which was a Chrifian church, at the gate of which there are feveral colum.is of polified marole. There are a few Chritions, who are emnloyed in gardening. E. Long, 29. 5. N. Lat. 37. 51.

SARDONIUS atsus, Sardonian Laughter; a consuhive involuntary laughtor; thus named from the herba fardonia, which is a fpecies of ranunculus, and is faid io produce luch convulfive motions in the cheels as refromble thofe motions which are obferved it the face dit-
ring a fit of laughter. This complaint is fometimes feze. Sartionje dily fatal. If the ramunculus happens to be the caule, the curc muit be attempled by means of a vonit, and fre-- Smiro. quent draughts of hydromel with milk.

SARDONYX, a precious thone contifing of a mixture of the calcedony and carnelian, fometimes in fer:ta, but at other times blended together. See MinizaLogy.

SARIMP ITAM, a country of Indofan, lying at the back of the dominions of the Samorin ef Jalabar, and which, as far as we know, was never fubdued by any foreign power. Mr Grofe relates, that "it has been conitan:ly a maxiun with the iulabitants of this comitiy never to make any but a defenfive war; and even then, not to kill any of their adverfaries in battle, but to cut off their nofes. To this fervice the military were peculiarly trained up, and the dread of the defermity proved füticienily Atrong to keep their neighbourz, rot mach more marial than themfelves, from effectu: lly attaching them."

SARMENTOS压 (from farmentu:n, a long floot like tiant of a vine) ; the name of the sutheclafs in Linnwes's Fragments of a Natural Mcthot, confifting of plants which have climbing items and branches, that, like the vine, attach thendelves to the bodies in their neighbourhood for the purpole of fupport. See Botany.

SAROS, in chronology, a period of 223 lunar months. The etymology of the word is faid to be Chaldean, fignifying reititution, or return of celiples; that is, conjunctiuns of the fun and monn in nearly the fame place of the ecliptic. The Saros was a cycle like to that of Meto.
SAROTHRA, a genus of plants, belonging to the pentandria clafs; and in the natural method ranking under the 2 oth order, Ritacece. See Botany Index.

SARPLAR of Wool, a quantity of wool, otherwife called a pocket, or half fack; a fack containing 30 tod; a tod two ftone; and a fone 14 pounds.-In Scotland it is called farpliath, and contains 8o flome.

SARRACON1A, a genus of plants belonging to the polyandria clafs; and in the natural method ranking under the $54^{\text {th }}$ order, Mijgelíane:a. See Botany Index.

SARrASIN, or SARrazis, ia fortifcation, a kind oi portcullis, otherwife called a herfe, which is hung with ropes over the gate of a town or fortrefs, to be let fall in cafe of a furprie.

SARSAparilla. See Smhax, Botany and Materia Medicas Indec.
SAR TORIUS, in Asito:sy. See there, Tohide of the Mirfoler.

OLD SARUM, in Wilts, about one mile sorth of New Saruin or Salifbury, has the ruins of a fort which belonged to the ancient Britons; and is sid alfo to have lisen one of the Romai fation:, It has a double intrenchment, with a deep ditch. It is of an orbicular form, and has a very augurt lonk, being ercited on one of the moit clegant pians for a Firrieds that can be ipyagined. In the north-wefl angle food the palace of the bithop, whofe fec was remuvet hither from Withon and Sherborn; but the bilhon quarrelling with Kiry Stephen, he fcized the call!e and put a farrifor iat $i^{\circ}$, which was the principal cayfe of its deflrution, sthe fee was fon after remond from hence ta thitury in

Sarum
1219. The area of this ancient city is fituated on an artificial hill, whofe walls were three yards thick, the ruins of which in many places in the circumference are ftill to be feen, and the tracks of the fireets and cathedral church may be traced cut by the different colour of the corn growing where once the city ftood. Here fynods and parliaments have formerly been held, and hither were the ftates of the kingdom fummoned to fwear fidelity to William the Conqueror. Here allo was a palace of the Britilh and Saxon kings, and of the Roman emperors; which was deferted in the reign of Henry III. for want of water, fo that one farm houfe is all that is left of this ancient city ; yet it is called the Bororigh of Old Sarum. and fends two members to parlizment, who are chofen by the proprietors of certain adjacent lands.

In February 1795 a fubterraneous paffage was difcovered at this place, of which we have the following account in the Gentleman's Magazine for March, in a letter dated Salifbury, Feb. 10. "Some perfons of Salifbury on Saturday laft went to the upper verge of the fortification (the citadel), and on the right hand, after they had reached the fummit, difcovered a large hole. They got a candle and lantern, and went down a flight of fteps for more than 30 yards. It was an arched way feven feet wide, neatly chiffeled out of the folid rock or chalk. It is probable the crown of the arch gave way from the fudden thas, and fell in. There is a great deal of rubbilh at the entrance. It appears to be between fix and feven feet high, and a circular arch overhead all the way. Thefe particulars I learned from the perfon who himfelf explored it ; but was afraid to go farther left it might fall in again and bury him. He thinks it turns a little to the right towards Old Sarum boufe, and continues under the foffe till it reached the outer verge. The marks of a chifel, he fays, are rifible on the fide. There are two large pillars of fquarefone at the entrance, uhich appear to have had a door at foot. They are 18 inches by 27 , of good free-ftone, and the mafon work is extremely neat. The higheft part of the archway is two feet below the furface of the ground.
" It is all now again filled up by order of farmer Whitechurch, who rents the ground of Lord Camelford, and thinks curiofity would bring fo many people there as to tread down his grafs whenever grals fhall be there. I went into it 30 yards, which was as far as I could get for the rubbith. I mealured it with a line, and found it extend full 120 feet inwards from the two pillars fuppofed to be the entrance; then onwards it appeared to be filled to the roof with rubbifh. By meafuring with the fame line on the furface of the earth, I found it mult go under the bottom of the outer bank of the outer trench; where I think the openirg may be found by digging a very little wav. Whether it was a Roman or a Norman work it is difficult to fay; but it certainly was intended as a privite way to go into or out of the caftle; and prob:bly a fort or ftrong cafle was built over the outer entrance. I looked for infcriptions or coins, but have not heard of any being found."

SASAFRAS. See Latres, Botany and Matekia Medica Index.

SASHES, in military drefs, are badges of diffinction worn by the officers of moft nations, either round their
waift or over their fhoulders. "Thofe for the Privill at my were made of crimion filk: for the Imperial army crimfon and gold; for the Pruftian army black filk and filver; the Hanoverians yellow filk; the Portuguefe crimfon filk with blue taffels.
SASine, or Seisin. See Law, No claiv. r 5. \&c.
SASSA. See Myrrh, Opocalpasum, Materta Medica Index, and Bruce's Travels, vol. v. p. 27. \&c.

SATAN, a name very common in Scripture, means the devil or chief of the fallen angels. See Devil.

SATELLITE, in Afironomy, the fame with a fecondary planet or moon.

Satire. See Satyr.
SATRAPA, or Satrapes, in Perfian antiquity, denotes an admiral; but more commonly the governor of a prevince.

SATTIN, a gloffy kind of filk fluff, the warp of which is very fine, and flands fo as to cover the coarfer woof.

SATTINET, a flight thin kind of fattin, which is commonly friped, and is employed for different purpofes of female drefs.

SATURANTS, in Anatomy, the fame with Aesorbents.

SATURATION, in Chemi/lry, is the impregnating an acid with an alkali, or vice verfa, till either receive no more, and the mixture then become neutral.

SATURDAY, the ferenth and laft day of the week, fo called from the idol Seater, workipped on this day by the ancient Saxons, and thought to be the fame as the Saturn of the Latins.
SATUREIA, Savory, a genus of plants belonging to the didynamia clafs; and in the natural method ranking under the $4^{2 d}$ order, Verticillata. See Botany Index.

SATURN, in Afronomy, one of the planets of our folar fyftem, revolving at the diffance of more than 900 millions of miles from the fun. See Astronomy Index.
Saturn, in Chemifry, an appellation formerly given to lead.
Saturn, in Heraldry, denotes the black colour in blazoning the arms of fovereign princes.
Saturn, one of the principal of the Pagan deities, was the fon of Colus and Terra, and the father of Jupiter. He depofed and caftrated his father; and obliged his brother Titan to refign his crown to him, on condition of his bringing up none of his male iflue, that the ficceffion might at length devolve on him. For this purpofe he devoured all the fons he had by his wife Rhea or Cybele: but fie bringing forth at one time Jupite: and Juno, fhe prefented the latter to her hufland, and fent the boy to be nurfed on Mount Ida; when Saturn being informed of her having a fon, demanded the child; but in his ftead his wife gave him a flone fwaddled up like an infant, which he inflantly fwallowed. Titan finding that Saturn had violated the contract he had made with him, put himfelf at the head of his children, and made war on his brother, and having made him and Cybele puifoners, confined them in Tartarus: but Jupiter being in the mean time grown up, raifed an army in Crete, went to his fathier's affiftance, defeated Titan, and refored Saturn to the throne.

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Saturn Some time after, Saturn being told that Jupiter intended to dethrone him, endeavoured to prevent it ; but the latter being informed of his intention, depoled his father, and threw him into Tartarus. But Saturn efeaping from thence fled into Italy, where he was kindly reccived by Janus king of the country, who alfociated him to the government: whence Italy obtained the name of Saturnia Tcllus; as alfo that of Latium, from lateo, " to lie hid." There Saturn, by the wifdom and mildnefs of his government, is faid to have produced the golden age.

Saturn is reprefented as an old man with four wings, armel with a feythe; lometimes he is delineated under the figure of a ferpent with its tail in its mouth. This is emblematic of the feafons, which roll perpetually in the lame circle. Sometimes alfo Saturn is painted with a fand-glafs in his hand. The Greeks fay, that the ftory of his mutilating his father and deftroying his children is an allegory, which fignifies, that Time devours the paft and prefent, and will alfo devour the future. The Romans, in honour of him, built a temple, and celebrated a feltival which they called Saturnalia. During this feltival no bufnefs or profeffion was alluwed to be carried on exeept cookery; all ditinctions of rank ceafed ; flaves could fay what they pleafed to their mafters with impunity; they could even rally them with their faults before their faces.

SATURNALIA, in Roman antiquity, a feftival obferved about the middle of December, in honour of the god Saturn, whom Lucan introduces giving an account of the ceremonies obferved on this occafion, thus. " During my whole reign, which lafts but for one week, no public bufnefs is done; there is nothing but drinking, finging, playing, creating imaginary kings, placing fervants with their malters at table, \&c. There fhall be no difputes, reproaches, \&ic. but the rich and poor, mafters and llaves, thall be equal," \&sc.

On this feftival the Romans facrificed bare-headed, contrary to their cuffum at other facrifices.

SATURNINE, an appellation given to perfons of a melancholy dipofition, as being fuppofed under the influence of the planet Saturn.

SATYAVRITA, or Menu, in Indian mythology, is believed by the Hinduos to have reigned over the whole world in the earlieft age of their chronology, and to have refided in the country of Dravira on the coaft of the eaftern Indian peninfula. His patronymic name was Vaivafwata, or child of the fun. In the Bhagavat we are informed, that the Lord of the univerle, intending to preferve him from the fea of deftruction, caufed by the depravity of the age, thus told him how he was to act. "In feven days from the prefent time, O thou tamer of enemies, the three worlds will be plunged in an ocean of death; but, in the midit of the dedlroying waves, a large veffel, fent by me for thy ufe, fhall ftand before thee. Then fhalt thou take all medicinal herbs, all the variety of feeds; and, accompanied by feven faints, encircled by pairs of all brute animals, thou fhalt enter the fpacious ark and continue in it, fecure from the flood on one immenfe ocean without light, except the radiance of thy holy companions. When the flip fhall be agitated by an impetuous wind, thou fhalt faften it with a large fea-ferpent on my horia ; for I will be near thee: drawing the veffel, with thee and thy altendants. I will remain on the ocean, O chice of
men, until a night of Brahmá fhall be completely ended. Satyavrze Thou flalt then know my true greatnels, rightly named the fupreme Godhead; by my favour, all thy queftions thall be anfwered, and thy mind abundantly inftructed." All this is faid to have been accomplihhed; and the flory is evidently that of Noah difguiled by Afiatic fiction and allegory. It proves, as Sir William Jones has rightly oblerved, an ancient Indian tradition of the unwerfal deluge defcribed by Mofes; and enables us to trace the connexion between the eallern and weltern traditions relating to that event. The fame learned author has hown it to be in the higheit degree probable, that the Sutyavrata of India is the Cronus of Greece and the Saturn oi Italy. See Saturn; and Afatic Refearches, vol. i. p. 230 , \&c.

SATTR, or SAT1RE, in matters of literature, a difcourfe or poem, expofing the vices and follies of mankind. See Poetry, Part II. fect. x.

The chief fatirifts among the ancients are, Horace, Iuvenal, and Perfius: thofe among the moderns, are, Regnier and Boileau, in French; Butler, Dryden, Rocheller, Buckingham, Swift, Pope, Young, \&c. among the Englifh; and Cervantes among the Spaniards.

SATYRIASIS. See Medicine Index.
SATYRIUM, a genus of plants belonging to the gynandia clafs; and in the natural method ranking under the 42 d orler, Verticillatie. See Botany Index.

SATYRS, in ancient mythology, a fpecies of demigods who dwelt in the woods. They are reprefented as monfters, half-men, and half-goats; having horns on their heads, a hairy body, with the feet and tail of a goat. Ticy are generally in the train that follows Bacchus. - Is the poets fuppofed that they were remarkable for piereing eyes and keen raillery, they have placed them in the fame pictures with the Graces, Loves, and even with Venus herfelf.

SAVAGE, Richard, one of the moft remarkable characters that is to be met with perhaps in all the records of biography, was the fon of Anne countels of Macclesfield by the earl of Rivers, according to her own confefiion; and was born in 1698 . This confeffion of adultery was made in order to procure a feparation from her hufband the earl of Macclesfield : yet, having obtained this defired end, no fooner was her fpurious offspring brought into the world, than, without the dread of ihame or poverty to accufe her, the difcovered the refolution of diforning him; and, as long as he lived, treated him with the moft unnatural crueity. She delivered him over to a puor woman to educate as her own; prevented the earl of Rivers from leaving him a legacy of 60001 . by declaring him dead: and in effect deprised him of another leyacy which his godmother Mrs Lloyd had left him, by concealing from him his birth, and thereby rendering it impofible for him to profecute his claim. She endeavoured to fend him fecretly to the plantations; but this plan being either laid afide or fruftrated, fhe placed him apprentice with a Gooemaker. In this fituation, however, he did not long continue: for his nurfc dying, he went to take care of the effests of his fuppofed mother ; and found in her boxes fome letters which difcuvered to young Savace his birth, and the caule of its concealment.

From the moment of this difcovery it was natural fue. him to become difatisfied witl his fituation as 2 thormalict. He now conceived that he had a right to thare

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S.vase. in the affluence of his real mother ; and therefore he directly, and perhaps indifcrectly, applied to her, and made ufe of every art to awahen her tendernefs and attract her regard. But in vain did he folicit this unnatural parent: fle avoided him with the utmoft precaution, and took meafures to prevent his ever entering her houfe on any pretence whatever.

Savage was at this time fo touched with the difcovery of his birth, that he frequently made it his practice to walk before his mottrer's door in hopes of feeing her by accident ; and often did he warmly folicit her to admit him to fee her; but all to no purpofe: he could neither foften her heart nor open her hand.

Mean time, while he was affiduoufly endeavouring to roufe the affections of a mother in whom all natural affcetion was extinct, he was deftitute of the means of fupport, and reduced to the miferies of want. We are not told by what means he got rid of his obligation to the Thoemaker, or whether he ever was actualiy bound to him ; but we now find him very differently employed in order to procure a fubfiftence. In fhort, the youth had parts, and a ftrong inclination towards literary purfuits, efpecially poetry. He wrote a poem ; and afterwatds two plays, Woman's a Riddse, and Love in a Veil: but the author was allowed no part of the profits from the firft; and from the fecond he reccived no other advantage than the acquaintance of Sir Richard Steele and Mr Wilks, by whom he was pitied, careffed, and relieved. However, the kindnefs of his friends not affording him a conftant fupply, he wrote the tragedy of Sir Thomas Overbury; which not only procured him the efteem of many perfons of wit, but brought him in 2001. The celebrated Aaron Hill, ESq; was of great fervice to him in correcting and fitting this piece for the flage and the prels; and extended his patronage ftill farther. But Savage was, like many other wits, a bad manager, and was ever in diftrefs. As fatt as his friends raifed him out of one difficulty, he funk into another; and, when he found himfelf greatly involved, he would ramble about like a vagabond, with fcarce a flirt on his back. He was in one of thefe filuations during the time that he wrote his tragcdy above-mentioned; without a lodging, and often without a dinner: fo that he ufed to fcribble on fcraps of paper picked up by accident, or begged in the flops, which he occafionally flepped into, as thoughts occurred to him, craving the favour of pen and ink, as it were juf to take a memorandum.

Mir Hill alfo earnefly promoted a fubfcription to a volume of Mijcellanies, by Savage; and likewife furnifhed part of the poems of which the volume was compofed. To this mifcellany Savage wrote a preface, in which he gives an account of his mother's cruclty, in a very unconimon ftrain of humour.

The profits of his Tragedy and his Mifcellanies together, had now, for a time, fomewhat raifed poor Savage both in circumfances and credit; fo that the world jut hegan to behold him with a more favourable cye than fornicr? y , when both his fame and life were endangered by a moft unhappy event. A drunken frolic in which be one nithte engaged, ended in a fray, and Savase unfortunately killed a man, for which lie was condemned to be lianged; his friends earneftly folicited the mercy of the crown, while his mother as canneftly exerted herfclf to prevent his receiving it. The coun-
tefs of Hertford at length laid his whoie cafo before Queen Caroline, and Savage obtained a pardon.

Savage had now loft that tendernefs for his mother which the whole feries of har cruelty had not been able wholly to reprefs; and confidering her as an implacable enemy, whom nothing but his blood could fatisfy, threatened to harafs her with lampoons, and to publihh a copious nariative of her condset, urilefs the cenfented to allow him a penfion. This expedient proved fuccefsful; and the loid Tyrconnel, upon his promife of laying efide his defign of expofing his mother's cruelty, took him into his tamily, treated him as an equal, and engaged to allow him a penfion of 2001. a-year. This was the golden part of Savage's life. He was courted by all who endeavoured to be thought men of genius, and careffed by all who valued theinfelves upoa a refined tafte. In this gay pericd of his life he publifted the Temple of Healith and Mirth, on the recovery of Lady Tyrconnel from a languifhing illnefs; and The Winderer, a moral poem, which he dedicated to Lord Tyrconnel, in ftrains of the higheft panegyric: but thefe praifes he in a thort time found himfelf inclined to retract, being difcarded by the man on whom they were beftowed. Of this quarrel Lord Tyrconnel and Mr Savage affigzed very different reafons. Our author's known character pleads too frongly againft him; for bis conduct was ever fuch as made all his friends, fooner or later, grow weary of him, and even forced moft of them to became bis enemies.

Being thus once more turned adrift upon the world, Savage, whofe paffions were very flong, and whofe gratitude was very fnall, became extremely diligent in expofing the faults of Lord Tyrconsel. He, moreover now thought himfelf at liberty to take revenge upon his mother,-Accordingly he wrote The Baflard, a poem, remarkable for the vivacity of its beginning (where he finely enumerates the imaginary advantages of bafe binth), and for the pathetic conclufion, wherein he recounts the real calamities which he fuffiered by the crime of his parents. -The reader will not be difplcafed with a tranfcript of fome of the lines in the opening of the foem, as a fpecimen of this writer's fpirit and manner of verffification.

Bleft be the baftard's birth! thro' wondrous ways,
He flines eccentric like a comet's blaze.
No fickly fruit of faint compliance he;
He ! ftamp'd in nature's mint with ecitafy!
He lives to build, not boalf, a gen'rous race;
N , tenth tranfmitter of a fooliif face.
I-e, kindling from within, requires no flame, He glories in a baflard's glowing name.

- Vature's unbounded fon, he ftands alone,

His heart unhias'd, and his mind his own.
-O mother ! yet no mother !-'is to you
My thanks for fuch diftinguifh'd claims are due.
This poem had an extraordinary fale; and its aj, pearance happening at the time wlien his mother was at Bath, many perfons theie took frequent opportunities of repcating paffages from the Baftard in her hearing. This was perhaps the firft time that ever fhe dif covered a fenfe of flame, and on this occafion the power of wit was very confpicuous: the wretch who had, without fcruple, proclaimed herfelf an adulterefs, and wh:o had firft endearoured to flarve her fon, then to iranfphri

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réproach, though the felt no pain from guilt; and left Bath with the utmolt hafte, to thelter herfelf among the crowds of London (1).

Some time after this, Savage formed the refolution of applying to the queen ; who having once given him life, he hoped the might farther extend her goodnefs to him, by enabling him to fupport it.-With this viev, he publifhed a poem on her birth-day, which he entitled The Volunteer-Laureat; for which fie was pleafed to

Savage. hian, and afterwards to hang him, was not able to bear the reprefentation of her own conduct; but fled from

## $\underbrace{\text { Sivage. }}$

fend hima 50 , with an intimation that he might annually expect the fame bounty. But this annual allowance was nothing to a man of his ftrange and fingular extravagance. His ufual cuftom was, as foon as he had received his penfion, to difappear with it, and fecrete himfelf from his moft intimate frienes, till every ailling of the 501 . was fuent; which done, he again appeared, pennylefs as before: But he would nerer inform any perfon where he had been, or in what manner his money had been diffipated.- From the reports, however, of fome, who fuund moans to penetrate his haunts,
(A) Mr Bofwell, in his life of Dr Johnfon, has called in queftion the ftory of Savage's birth, and grounded his furpicion on two miftakes, or, as he calls them, falfehoods, which he thinks has has difcosered in his friend's memoirs of that extraordinary man. Johnfon has f.iid, that the carl of Rivers was Savage's godfather, and gave him his own name; which, by his direction, was inferted in the regifter of the parifh of St Andrew's, Holborn. Part of this, it feems, is not true; for Mr Bofwell carefully iufpected that regifter, but no fuch entry is to be found. But does this omifion amount to a proof, that the perlon who called himfelf Richard Savage was an impoftor, and not the fon of the earl of Rivers and the countefs of Macclesficld? Mr Bofwell thinks it does; and, in behalf of his opinion, appeals to the raxim, falfum in uno, falfum in omnibus. The folidity of this maxim may be allowed by others; but it was not without furprife that, on fuch an occafion, we found it adopted by the biographer of Johnfon. To all who have compared his view of a celebrated caufe, with Stuart's letters on the fame fubject addreffed to Lord Mansfield, it muft be apparent, that, at one period of his life, he would not have deemed a thoufand fuch mittakes fufficient to invalidate a narrative otherwife fo well authenticated as that which relates the birth of Savage. The truth is, that the omiflion of the name in the regifter of St Andrew's may be cafily accounted for, without bringing agzinft the wretched Savage an accufation of impofture, which weither his mother nor her friends dared to urge when provoked to it by every poffible motive that can influence human conduct. The earl of Rivers would undoubtcdly give the direCtion about regifering the child's name to the fame perfon whom he entrufted with the care of his education; but that perfon, it is well known, was the countefs of Macclesfield, who, as hie had refulved from his birth to difown her fon, would take care that the direction fhould not be obeyed.

That which, in Johnfon's life of Savage, Mr Bofwell calls a fecond fairchood, feems not to amount even to a miftake. It is there ftated, that "Lady Macclesfield having lived for fome time upon very unealy ternas with her hufband, thought a public confeffion of adultery the moft obvious and expeditious method of obtaining her liberty." This Mr Bofwell thinks cannot be true; becaufe, having perufed the jourrals of both houfes of parliament at the period of her divorce, he there found it authentically afcertained, that fo far from voluntarily fubmitting to the ignominious charge of adultery, the made a ftrenuous defence by her counfel. But what is this to the purpofe? Johnfon has nowhere faid, that the confeffed her adultery at the bar of cither houfe of parliament, but only that her confeffion was public: and as he has taught us in his Dietionary, that whatever is notorious or generally known is public; public, in his fenfe of the word, that confeffion certainly was, if made to different individuals, in fuch a manner as fhowed that fhe was not ansious to conceal it from her hufband, or to prevent its notoriety. She might, however, have very cogent reafons for denying her guilt before parliament, and for making a ffrenuous defence by her counfel ; as indeed, had the acted otherwife, it is very little probable that her great fortune would have been reftored to her, or that fthe could have obtained a fecond hußband.

But Mr Bofvell is of opinion, that the perfon who affumed the name of Richard Savage was the fon of the Thoemaker under whofe care Lady Macclesfield's chiid was placed ; becaufe " his not being able to obtain payment of Mrs Lloyd's legacy muft be imputed to his confcioufnefs that he was not the real perfon to whom that legacy was left." He muft have a willing mind who can admit this argument as a proof of impoflure. Mrs Lloyd died when Savage was in his roth year, when he certainly did not know or fufpect that he was the perfon for whom the legacy was intended, when he had none to profecute his claim, to fhelter him from oppreflion, or to call in law to the affiftance of juftice. In fuch circumfances he could not have obtained payment of the money, unlefs the executors of the will had been infpired from heaven with the knowledge of the perfon to whom it was due.

To thefe and a thoufand fuch idle cavils it is a fufficient anfiver, that Savage was acknowledged and fatronized as Lady Macclesfield's fon by Lord Tyrconnel, who was that lady's nephew; by Sir Richard Steele, the intimate friend of Colancl Brett, who was that lady's fecond bufband; by the queen, who, upon the authority of that lady and her creatures, once thought Savage capable of entering his mother's houfe in the night with an intent to murder her; and in effect by the lady herfelf, who at ons time was prevailed upon to give him 501 . and who fled before the fatire of the Baflard, without offering, cither by herfelf or her friends, to deny that the author of that poem was the perfon whom he called himfelf, or to infinuate fo much as that he night poflbly be the fon of a floemaker. To Mr Bofwell all this feems firange; to others; who look not with fo keen an eye for fuppofititious births, we think it muft appear comvincing.

VoL. XVIII. Part II.

Savze. it would feem that he expended both his time and his cafh in the moft fordid and defpicable fenfuality ; particularly in eating and drinking, in which he would indulge in the moft unfocial manner, fitting whole day's and nights by himfelf, in obfcure houfes of entertainment, over his bottle and trencher, immerfed in filth and floth, with farce decent apparel ; generally wrapped up in a horfeman's great coat; and, on the whole, with his very homely countenance, altogether, exhibiting an object the moft difgulting to the fight, if not to fone other of the fenfes.

His wit and parts, however, ftill raifed him new friends as faft as his behaviour lo:t him his old ones. Yet fuch was his conduct, that occafional relief ouly furnilhed the means of occafiotal excefs; and he defated a!l attempts made by his friends to fix him in a decent way. He was even reduced fo low as to be deftitute of a lodging; infomuch that he often pafled his nights in thofe mean houfes that are fot open for cafual wandercrs; fometimes in ceilers aniidft the riot and filth of the mott prolligate of the rabble ; and not feldom would he walk the lireets till he was weary, and then lie down in fummer on a bulk, or in winter with his affociates among the aflies of a glalis-lioufe.

Yet, amidit all his penury and wretchednefs, had this man fo much pride, and fo high an opinion of his own werit, that he ever kept up his firits, and was always ready to reprefs, with fcorn and contempt, the leaft appearance of any flight or indignity towards himfelf, in the buhwiour of his acquaintance; among whom he looked upon none as his fuperior. He would be treated as an equal, eren by perfons of the highelt rank. We have an inftance of this prepoiterous and inconfiftent pride, in l.is refufing to wait upon a gentleman who was defirons of relieving lim when at the loweft ebb of dittefs, only becaufe the mefir ge fignified the genIleman's deire to fee him at nine in the morning. Savage could not bear that any one fhould prefume to preicribe the hour of his atiendance, and therefore he abfolutely rejeed the profiered kindnefs. This life, wahappy as it may be already imagined, was yet rendered more unhajoy, by the death of the queen, in ${ }^{1738}$; which Itroke deprived him of all hopes from the court. His penfion was difcontinued, and the infolent manner in which he demanded of Sir Robert Walpole to have it reftored, for ever cut off this confiderable fupply ; which poffibly had been orly delayed, and might have been recovered by proper application.

His ditre!s bccame now fo great, and to notorious, that a fcheme was at len ${ }^{\text {th }}$ concerted for procuring hin a permanent relief. It was propofed that he Qumbld retire it.o Wale, with an allowance of 501. fer alrom, on wlich he ils to live privately in a cheap place, for ever quitting his town haunts, and refigning all fatther pretenfions to fane. This offer he feemed gladly to accept ; but his intentions were only to deceive his fiem: ${ }^{\text {d }}$, by retiring for a while, to write a: ol' ir tri.gedy, and then to reiurn with it to Lon:don in crde to lries it upen the flage.

In 17:9. he fet out in the Brinal nage coach for Sxanf $y$, ind was furat thed with is vineas to bear the ex e-ce of lio farne\%. Eut, in the t th day afier
 of uhitu nas : 0 oicr time the great Mr Poice, who
expected to hear of his arrival in Wales, were furprifed with a letter from Savage, informing them that he was yet upon the road, and could not proceed for want of money. There was no other method than a remittance; which was lent him, and by the help of which he was eliabled to reach Britol, from whence he was to proceed to Swanfey ty water. At Briftol, however, he found an embar; 0 laid upon the fhipping; fo that he could not immediately obtain a paffage. Here, therefore, being obliged to itay for lome time, he, with his ufual facility, to ingratiated himfelf with the principal inhabitants, that he was frequently invited to their houfes, diltinguihed at their public entertainments, and treated with a regard that highly flattered his vanity, and therefore eafily engaged his affections. At length, with great reluctance, he proceeded to Swanfey; where he lived about a year, very much diffatisfied with the diminution of his falay; for he had, in his letters, treated his contributors fo infolently, that moft of them withdrew their fubforiptions. Here he finithed his tragedy, and refolved to return with it to London : which was itrenuoully oppoied by his great and conftant friend Mr Pope ; who propofed that Savage fhould put this play into the hands of Mr Thomfon and Mr Mallet, in order that they might fit it for the ftage, that his friends thould receive the profits it might bring in, and that the author fhould receive the produce by way of annuity. This kind and prudent icheme was rejected by Savage with the utmoft contempt.-He declared he would not fubmit his works to any one's correction; and that he fhould no longer be kept in leading flrings. Accordingly he foon returned to Brifoll in his way to London ; but at Briftol, meeting with a repetition of the fame kind treatment he had before found there, he was tempted to make a fecond flay in that opulent city for fome time. Here he was again not only carefled and treated, but the fum of a 301 . was railed for him, with which it had been happy if he had immediately departed for London: But he never confidered that a frequent repetition of fuch kindnefs was not to be expected, and that it was poffible to tire out the generofity of his Brittol friends, as he had befure tired his friends every where elfe. In fhort, he remained here till his company was no longer welcome. His wifits in every family were too often repeated; his wit had loft its novelty, and his irregular behaviour grew troublefonc. Neceffity came upon him before he was aware; his money was fpent, his clothes were worn out, his appearance was thabby; and his prefence was difgulful at erery table. He now began to find every man from home at whofe houfe he called; and he found it d:flicult to obtain a dinner. Thus reduced, it would h.ve been prudent in him to have withdrawn from the place; but prudence and Suvage were never acquainted. He Ataid, in the midit of porerty, hanger, and contcmpt, till the miftrefs of a coffee-houfe, to whom he owved about cight pounds, arrelted him for the debt. He remained for fome tinie, at a great cxpence, in the houfe of the fieniff's orlicer, in hopes of procuring bail; which expence he was enabled to defiay, by a preient of five guineas from Mr N that Bath. No b.il, howetro, was to be found ; fo that poor Savnge was at laft lodged in Ne"gate, a prifon fo mancd in B

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sivaze. But it was the fortune of this extraordinary mortal always to find more friends than he deferved. The keeper of the prifon took compaffion on him, and greatly fofiened the rigours of his coninement by every kind of indulgence; he fupported him at his own table, gave him a commudiaus room to himfelf, allowed him to Itand at the door of the gaol, and even frequently took him into the fields for the benefit of the air and exercife: fo that, in reality, Savage endured fewer hardfhips in this place than he had utiually fuffered during the greatelt part of his life.

While be remained in this not intolerable priton, his ingracitude again broke out, in a bitter fatire on the city of Brittol; to which he certainly owed great obligations, notwithttanding the circumftances of his arret ; which was but the act of an individual, and that attended with no circumitances of injultice or cruelty. This fatire he entitled London and Brifiol delineated; and in it he abufed the inhabitants of the latter, with fuch a fpirit of refentment, that the reader would imagine he had never received any other than the moit injurious treatment in that city.

When Savage had remained about fix months in this hofpitable prifon, he received a letter from Mr Pope, (who till continued to allow him 201. a-year) containing a charge of very atrocious ingratitude. What were the particulars of this charge we are not informed; but, from the notorious character of the man, there is reafon to fear that Savage was but too juftly accufed. He, hovever, folemaly protefted his innocence; but he was very unufually affected on this occation. In a few days after, he was feized with a diforder, which at firf was not fufpected to be dangerous: but growing daily more languid and dejezted, at lait a fever feized him; and he expired on the ift of Augult 1743, in the f6th year of his age.

Thus lived, and thus died, Fichnd S:vaze, Efq. leaving beiind him a character ftrangely chequered with vices and good qualities. Of the former we have feen a variety of infances in this abltract of his life; of the latter, his peculiar fituation in the world gave him but few opportunities of making any confiderable difflay. He was, however, unduab edly a man of excellent parts; and bad he received the full bencfits of a liberal education, and had his natural talents been cultivated to the beit advantage, he might have made a reipectable figure in life. He was happy in a quick difcernment, a retentive memory, and a lively flow of wit, which made his company much coveted; nor was his judgement both of writings and of men inferior to his wit: but he was too much a fleve to his paffions, and his paffions were too eafily excited. He was warm in his freadihips, but impla able in hisenmiey: aad his gr eateft fa it, which is indeed the grentef of all f ults, was ingratitude. He feemed to thil $k$ every thing due to his merit, and that he was little $0^{\prime}$ lized to any one for thofe favours which he thousht it their daty to confer on him : it is therefore the let to be wondered at, that he never rightly eft imend the kindefs of his many friends and beriefta ors, or - insed a grateful and due fen!e of their giner sll $y$ tow in it.

The warks of hi oriin $\}$ ericr, after having lag lain difperfel in marizncs atsitive pollications, have been $1 a^{2}$ y c cheated and pobinhed in an elozant ediuion, in 2 vo!s $8 v_{0}$; to which sie prifix-d, the at.
mirable Memuirs of Savage, written by Dr Samucl
Sarage. Johnfon.

Savice is a word fo well underftood as fearcely to require explanation. When applied to inferior anin als, it denotes that they are wild, untamed, and cruel; when applied to man, it is of much the feme import with barbarian, and means a perfon who is untaught and uncivilized, or who is in the rude flate of uncultuvated nature. That fuch mon exilt at pre ${ }^{-} \mathrm{m}$, and have exitted in moft ages of the world, is unseniable; but a queftion naturally occurs refpecting the origin of this favage fiate, the determination of which is of conliderable importance in developing the nature of man, and afcertaining the qualities and powers of the human mind. Upon this fubject, as upon molt others, opinions are very various, and the fylterss built upon them are conlequently very contradictory. A large fect of ancient philofophers maintained that mon fprung at firlt from the earth like his brother vegetables; that he was without ideas and without fpeech; and that many ages elapfed before the race acquired the ufe of language, or attained to greater knowledge than the beails of the forelt. Other fects again, with the vulgar, and almoit all the poets, maintained that the firt mortals were wifer and happier, and more powerful, than any of their offsping ; that mankind, infiead of being originally favages, and riing to the flate of civilization by their own gradual and progreflive exertions, were created in a higb degree of perfection; that, however, they degenerated from that flate, and that all nature degenerated with them. Hence the various ages of the world have almoft every. where been compared to gold, filver, brals, and iron, the golden having been always fuppofed to be thee firt arse.

Since the revival of letters in Europe, and e? ecially during the prefent century, the fame queftion has been mach agitated both in France and E. gland, and by far the greater part of the mofl fufhionable names in modern feience have declared for the original favagilm of men. Such of the ancients as held that opir ion were countenanced by the atheiticic cofmogony of the Phonicians, and by the early hiltory of their own nations; the moderns build their fyitem upon what they fuppofe to be the conflitution of the buman mind, and upon the late improvernents in arts and ficiences. As the queflion muft finally be decided by hiftorical evidence, before we make our appeal to facts, we fhall confider the force of the modern reafonings from the fuppofed innate powers of the human mind ; for that reafoning is totally different from the other, and to blend them together would on : prevent the reader from having an adequate concep ion of cither.

Upan the fu ppofition that all mankind were original1v favages, deffitute of the ufe of firech, and, it the ftrideft fenfe of the words, mulum at tappe peciar, the grat difiti ulty is to emecive how they could emerge from that flate, and beome at lat enlightened and citi ized. The modern advocates for the univerfality of the finage flate remove this difficulty by a number of iallinets or internal fenfes, with which they fuypofe the humen mind enlowed, and by wlich the favage is, wi hout reti-ction, not only cnabled to diftinguilh between risht atid wro 15 , and prompled to do every thing necerfiry to the prefervation of his eviffence, ard the continuar se of the fyccies, bat allo led to the dicovers 3 S 2

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Savaze. of whyt will contribute, in the firl inflance, to the eaie and accommodations of life. Thefe imilinets, they think, brough: mandind together, when the icafoning faculty, which lad th herio oesa dormant, being now roufed by the collifin:s of fociety, ryde its oblervations upon the corfequences of their diff reat actions, tau the them to avoill fuch as experience flowed to Le pernicious, and to improve upon thofe which they found beneficial; and thus wis the ryaziefs of civilization begun. But this theory is oppeld by ofjetiuns which we know not Kow to e chiate. The bundle of inllincts with which modern idle:eif, unde: the denomination of nhilofophy, has lo amply furnilhed the human mind is a mere chimera. (S.e Ir:strinct). But granting its reality, it is by no means fufficient to produce the confequences which are derived from it. That it is not the parent of language, we have fhown at large in another place (fee Language, No I-7.); and we have the confefficn of fome of the ableft advocates for the eriginal favagifm of man, that large focieties nuft have been formed tefore language coild have been invented. How focieties, at leaft large focieties, could be formed and kept together without language, we have not indeed been told; but we are affured by every hiftorian and every traveller of credit, that in fuch focieties only have mankind been found civilized. Among known favages the focial /orge is very much confined; and therefore, had it been in the firft race of inen of as enlarged a nature, and as fafe a guide, as the inflinctive philolophers contend that it rras, it is plain that thofe men could not have been favages. Such an appetite for fociety, and fuch a director of conduct, inftead of enabling mankind to have emerged from favagifm, would have effeetually prevented them from ever becoming favage; it would have knit them together from the very firft, and furnifhed opportunities for the progenitors of the human race to have begun the procefs of civilization from the moment that they oropt from the hands of their Creator. Indeed, were the modern theories of internal fenfes and focial affections well founded, and were thefe fenfes and affections fufficient to have impelled the firft men into fociety, it is not ealy to be conceived how there could be at this day a favage tribe on the face of the earth. Natural coufes, operating in the fame direction and with the fame force, mult in every age produce the fame cffects; and if the focial affections of the firt mortals impelled them to fociety, and their reafoning faculties immediately commenced the procefs of civilization, furely the fame affections and the fame faculties would in a greater or lefs degree have had the fame effect in every age and on every tribe of their numerous offspring; and we fhould everywhere obferve mankind advancing in civilization, imfead of flanding ftill as they often do, and fometimes retreating by a retrograde motion. This, however, is far from being the cale. Hordes of favages exift in almoft every quarter of the globe; and the Chinefe, who have undoubtedly becn in a ftate of civilization for at leatt 2000 years, have during the whole of that long period been abfolutely fationary, if they have not loft fome of their ancient arts. (See Porcelain). The origin of civilization, therefore, is not to be looked for in human inflinets or human propenfities, carrying men forward by a natural progrefs; for the fuppofition of fuch propenfities is contrary to fact ; and by fact and hiforical evidence, in conjunction with what we
knew of the nature of man, muft this great quelion be at latt decided.

In the article Religion, N ${ }^{7}$. it has been thewn that the firft men, if left to themfelves without any infiruction, inflead of living the life of lavages, and in procefs of time advancing towards civilization, muift have perifhed before they acquired even the ufe of fome of their fenfes. In the fame article it has been fhown ( $\mathrm{N}^{0} 14-17$.), that Mufes, as he is undoubtedly the oldeft hiftorian extant, wrote likewife by immediate inipiration; and that therefore, as he reprefents our firft parents and their immediate defcendants as in a flate far remored from that of larages, it is vain to attempt to deduce the originality of luch a itate from hypothetical theries of human nature. We have, indeed, heard it cblerved by fome of the adrocates for the antiquity and univerfality of the favage flate, that to the appeal to revelation they have no objection, provided we take the Mofaic account as it ftands, and draw not from it concluffons which it will not fupport.

They conterid, at the fame time, that there is no argument fairly deducible from the book of Genefis which nilitates againft their pofition. Now we beg leave to remark, that befides the reafoning which we have already ufed in the article juft referred to, we have as much pofitive evidence againft their pofition as the nature of the Mofaic hiftory could be fuppofed to afford.

We are there told that God created man after his own image; that he gave him dominion over every thing in the fea, in the air, and over all the earth; that he appointed for his food various kinds of vegetables; that he ordained the Salbath to be obferved by him, in commemoration of the works of creation; that he prepared for him a garden to till and to drefs; and that, as a teft of his religion and fubmiftion to his Creator, be forbade him, under fevere penalies, to eat of a certain tree in that garden. We are then told that God brought to him every animal which had been created; and we find that Adam was fo well acquainted with their feverai natures as to give them names. When, too, an belpmate was provided for him, he immediately acknowledged her as bone of his bone, flefh of his flefh, and called her wownar, becaufc fle was taken out of man.

How thefe facts can be reconciled to a fate of ignorant favagifm is to us abfolutely inconceivable; and is is indeed itrange, that men who profefs Chriftianity fhould appeal to reaion, and flick by its decifion on a queftion which revelation has thus plainly decided againft them. But it is agreeable to their theory to believe that man rofe by flow fteps to the full ufe of his reafoning powers. To us, on the other hand, it appears equally plaufible to fuppofe that our firit parents were created, not in full maturity, but mere infants, and that they wont through the tedieus procefs of childhood and youth, \&c. as to fuppofe that their minds were created weak, uninformed, and uncivilized, as are thofe of favages.

But if it be granted that Adam had a tolerable fhare of knowledge, and fome civilization, nothing can be more natural than to fuppofe that he would teach his defcendants what he knew himfelf; and if the Scriptures are to be believed, we are certain that fome of them poffefied more than favage knowledge, and better

Savage. than favage mamers. Bit inftead of going on to further pertection, as the theory of modern philofophers would lead us to fuppofe, we find that mankind degenerated in a molt altonihing degree ; the caufes of which we have already in part developed in the article Pon. Y тheism, $\mathrm{N}^{\circ} 4$, \&:c.

This early degeneracy of the human race, or their fudden progrefs towards ignorance and favagifm, appears to lead to an important confequence. If men to very foon after their creation, poffefing, as we have feen they did, a confiderable fliare of knowledge and of civilization, inftead of improving in either, degenerated in both refpects, it would not appear that human nature has that frong propenfity to refinement which many philofophers imagine; or that had all men been originally favage, they would have civilized themfelves by their own exertions.

Of the ages before the flood we have no certain account anywhere but in Scripture; where, though we find mankind reprefented as very wicked, we have no reafon to fuppofe them to have been abfolute favagcs. On the contrary, we have much reafon, from the fhort account of Mofes, to conclude that they were far advanced in the arts of eivil life. Cain, we are told, built a city ; and two of his early defcendants invented the harp and organ, and were artificers in brals and iron. Cities are not built, nor mufical inftruments invented, by favages, but by men highly cultivated: and furely we have no reafon to fuppole that the righteous pofterity of Seth were behind the apoltate defcendants of Cain in any branch of knowledge that was really ufeful. That Noah and his family were far removed from favagim, no one will controvert who believes that with them was made a new covenant of religion; and it was unqueftionably their duty, as it muft otherwife have been their wihh, to communicate what knowledge they polfeffed to their pofferity. Thus far then every confiftent Chriftian, we think, muft determine againt original and univerfal favagifm.

In the preliminary difcourfe to Sketches of the Hiftory of Man, Lord Kames would infer, from fome facts which he ftates, that many pairs of the human race were at firft created, of very different forms and natures, but all depending entirely on their oun natural talents. But to this ffatement he rightly obferves, that the Mofaic account of the Creation oppofes infuperable objections. "Whence then (fays his Lordilip) the degeneracy of all men into the favage fate To account for that difmal cataftrophe, mankind muth have fuffered fome dreadful convulion." Now, if we miftake not, this is taking for granted the wery thing to be proved. We deny that at any period fince the creation of the world, all men were funk into the flate of favages; and that they were, no proof has yet been brought, nor do we know of any that can be brought, unlefs our fafhionable philefophers choofe to prop their theories by the buttrefs of Sanchoniatho's Phenician cofmogony. (See Sanchoniatho). His Lordihip, however, goes on to fay, or rather to fuppofe, that the confufion at Babel, \&c, was this dreadful convulfion: For, fays he, "by confounding the language of men, and fcattering them abroad upon the face of all the earth, they were rendered favages." Here again we have a pofitive affertion, without the leaff fhador of proof; for it does not at all appear that the comfufion of
language, and the fcul:ering abroad of the people, was Savage. a circumftance fuch as could induce univerfal favagifin. There is no reafon to think that all the men (hen alive were engaged in building the tower of Babel ; nor does it appear from the Hebrew origin al that the language of thofe who were engaged in it was fo moch changed as the reader is apt to infer foom our Engliih verfion. (See PmLolocy, $\mathrm{N}^{\circ} 8-16$.). That the builders were foultred, is indeed certain; and if any of them were driven, in very fmall tilies, to a great dikance from their brethren, they would in procelf of time inevitably become favages. (See PoLitula m, N0 $4-6$, and Layglage, No 7.) ; but it is evicent, from the Scripture account of the peopling of the earth, that the defeendants of Shem and Japheth were not feattered oves: the face of all the earth, and that therefore they could not be rendered favage by the cataftrophe at Babel. In the chapter which redetes that wonderful esent, the generations of Shem are given in order down to Abram; but there is no indication that they had fuffered with the builders of the tower, or that any of thiem had degenerated into the flate of favages. On the contrary, they appear to have poffeffed a confiderable degree of knowledge; and if any credit be due to the tradition which reprelents the father of Ab bham as a flatuary, and himfelf as \&killed in the feicnec of attronomy, they nult have been far advanced in the arts of refinement. Even luch of the pofterity of Ham as cithes ezaigrated or were driven from the plain of Shinar in large bodies, to far from finking into favagifm, retained ail the accom lihments of their antedifuriar anceftors, and became afterwards the inflructors of the Greeks and Romans. This is evident from the hitory of the Egyptians and other eafiern nations, who in the days of Abraham were powestul and highly civilized. And that for many ages they did not degencrate into barbarifin, is apparent from its having been thought to exalt the character of Mofes, that he was learned in ail the wifdom of the Egyptians, and from the wifdom of Solomon having been faid to excel all the widom of the eaft country and of Egypt.

Thus decided are the Scripturc; of the Oid Tefament againt the univerfal prevalence of favagifm in that period of the woold; nor are the moft authentic Pagan writers of entiquity of a different opinion. Molchus the Phenician *, Democritus, and Lipicurus, appear to be * Strabo, the firft champions of the favage fate, and they are iit. vii. followed by a numerous body of poets and rhaploditts, Diog. Laets among the Greeks and Komans, who were unquetion- of Vita ably devoted to fable ant fiction. The account which Epicari. they have given of the origin of man, the reader will find in another place (fec Theology, Part I. fect. 1.) : But we hardly think that he will e:aploy it in fupport of the faftionable doftrine of original favagifm. Again z the wild reveries of this fchool are pofted ail the leadiers of the other feets, Greeks and barbarians; the philofophers of both Academies, the fages of the Italian and Alexandrian fchools; the Magi of Perfia; the Bramins of India, and the Druids of Gaul, \&ic. The teftimony of the early hifforians among all the ancient nations, indeed, who are avowedly fabulits, is very little to be depended on, and has been called in queftion by the moff judicious writers of Pagan antiquity. (Sce Pluiarch Vita Thoo. fub nit.; Thucyd.1. 1. cap. 1.; Serabo, 1. 11. 1. 507.; Liry Pref. and Varro ap, Alizyf. de C...

D(i)
$S_{\text {av. . - }}$, Dei). The more populous and extenfive kingdoms and locictics were civilized at a period prior to the records of profane hillory: the prefumption, therefore, without taking revelation into the account, certainly is, that they were civilized from the beginning. This is rendered further probable from other circumitances. To account for their fyftem, the advocates of favagifm are obliged, as we have feen, to have recourle to numerous fuppofitions. They imagine, that fince the creation dreadful convulfions have happened, which have feread ruin and devaltation over the earth, which have deffroyed learning and the arts, and brought on favagifm by one fudden blow. But this is realoning at random, and without a vettige of probability: for the only convulfion that can be mentioned is that at Babel, which we have already fhown to be inadequate.

Further, it does not appear that any people who were once civilized, and in procefs of time nad degenerated into the favage or barbarous ftate, have ever recovered their prittine condition without foreign aid. From whence we conclude, that man, once a favage, would never have raifed himielf from that hopelefs thate. This вppears evident from the hiltory of the world; for that it requires ftrong incitements to keep man in a very high itate of knowledge and civilization, is evident from what we know of the numerous nations which were famed in antiquity, but which are now degenerated in an aftorifting degree. That man cannot, or, which is the lame thing, has not rifen from barbarifm to civilization and fcience by his own efforts and natural talents, ap. pears further from the following facts. The rudiments of all the lcarning, religion, laws, arts, and fciences, and other improvements that have enlightened Europe, a great part of Afia, and the northern coaft of Africa, were fo many rays diverging from two points, on the banks of the Euphrates and the Nile. In proportion as nations receded from thefe two fources of humanity and civilization, in the fame proportion were they more and more immerfed ia ignorance and barbarifm. The Greeks had made no progrefs towards civilization when the Titans firft, and aftervards colonies from Egypt and Phenicia, taught them the very elements of fcience and

* See Ti-
\& zln urbani:y*. The aborigines of Italy were in the fame flate prior to the arrival of the Pelafgi, and the colonies from Arcadia and other parts of Greece. Spain was indebted for the firft feeds of improvement to the conmescial firit of the Phenicians. The Gauls, the Britons, and the Germans, derived from the Romans all that in the early periods of their hiftory they knew of fcience, or the arts of civil life, and fo on of other nations in antiquity. The fame appears to be the cafe in modern timcs. The countries which have been difoovered by the rellef, and inquiftive f,irit of Europeans have been ge-erally fome in the lowe tate of favagifm; form whi h, if they have emerged at all, it has been ex-ctlv in propertion to their comnection with the inhabilants of Europe. Even weftern Europe itfelf, when fank in i-t onns, during the reign of monkcry, did not recoser by the storts of its own inlabitants. Had not the Greeks. "1 o in the 1 sth century took refuge in Lialy from ti- cruelty of the Turks, brought with theas their oncient books, and taught the Italians to read them, we who are eifouting about the origin of tic fary: flat, and the ilmate powers of the human mit d, hid at tii- day bee.. grofs and ignorant 「"ages
ourlelves, incapable of reafoning with accuracy upor any fubject. That we have now advanced far before our miflers is readily admitted; for the human mind, when put on the right track, and Ppurred on Ly emulation and other incitements, is capable of making great improvements : but between improving fcience, and and emerging from lavagilm, every one perceives there is an immenle difference.

Lord Kames obferves, that the people who inhabit a grateful foil, where the neceffaries of life are eafily procured, are the firt who invent ufeful and ingenious arts, and the firlt who figure in the exerciles of the mind. But the Egyptians and Chaldeans, who are thought to fupport this remark, appear from what we have feen to have derived their knowledge from their antediluvian progentors, and not from any advantagcs of fituation or flrength of genius. Befides, the inhabitants of a great part of Africa, of North and South America, and of many of the illands lately difcovered, live in regions cqually fertile, and equally productive of the neceflaries of life, with the regions of Chaldea and Egypt; yet thefe people have been favages from time immemorial, and continue fill in the fame fate. The Athenians, on the other hand, inhabited the moft barren and ungrateful region of Greece, while their perfection in the arts and fiences has never been equalled. The Norwegian colony which fettled in Teeland about the beginning of the 8 th century, inhabited a moft bleak and barren foil, and yet the fine arts were eagerly cultivated in that dreary region when the reft of Europe was furk in ignorance and harbarifm. Again, there are many parts of Africa, and of North and South Ameriea, where the foil is neither fo luxuriant as to beget indolence, nor fo barren and ungrateful as to deprefs the fpirits by labour and poverty ; where, notwithftanding, the inhabitants fill continue in an uncultured flate. From all which, and from numerous other initances which our limits permit us not to bring forward, we infer that fome external influence is neceffary to impel favages towards civilization; and that in the hiftory of the world, or the nature of the thing, we find no infance of any people emerging from barbarifm by the progreflive efforts of their own genius. On the contrary, as we find in focieties highly cultivated and luxurious a ftrong tendency to degenerate, fo in favages we not only find no mark of tendency to improvement, but rather a rooted averfion to it. Among them, indeed, the foc:al appetite never reached beyond their own horde. It is, therefore, too weak and too confined to difpofe them to unite in large communities; and of courle, had all mankind been once in the favage ftate, they never could have arrived at any confiderable degree of civilization.

Inftead of trufting to any fuch natural progrefs, as is contended for, the Providence of Heaven, in pity to the human race, appears at different times, and in different countries, to have raifed up fome perfons endowed with fuperior talents, or, in the language of poetry, fome heroes, demi-gods, or god-like men, who having themfelves acquired fome knowledge in nations alrendy civilized, by ufful inventions, leg flation, religious inftitutions, and moral arrangements, fowed the tirft fecds of civilization annong the hordes of wandering difunited barthrians. Thus we find the Chincle lork up to their Fuhee, the Indians to Brahma, the Perfians

## S A V

Savage to Zoroafter, the Chaldeans to Oancs, the Egyptians il to Thoth, the Phenicians to Melicerta, the Scandina-Savannata- vians to Otin, the Italians to Janus, Saturn, and Pi$\underbrace{\text { Mas- }}$ cus, and the Peruvians to Manco. In later times, and almoit within our own view, we find the barbarous nations of Ruffia reduced to fome order and civilization by the aftonilhing powers and excrtions of Peter the Great. The endeavours of fucceeding monarchs, and efpecially of Catharine II. have powerfully contributed to the improvement of this mighty empire. In many parts of it, however, we ttill find the inhabitants in a fate very little fuperior to favagifm; and through the moft of it, the lower, and perhaps the middling orders, appear to retain an alrooft invincible averfion to
*Sec Ruflia. all further progrefs *. A fact which, when added to numerous others of a fimilar nature which occur in the hiltory of the world, feems to prove indifputably that there is no fuch natural propenfity to improvement in the human mind as we are taught by fome authors to believe. The origin of favagifm, if we allow mankind to have been at firlt civilized, is eafily accounted for by natural means : The origin of civilization, if at any period the whole race were favages, cannot, we think, be accounted for otherwife than by a miracle, or repeated miracles.

To many perfons in the prefent day, efpecially, the doctrine we have now attempted to citablifl will appear very humiliating; and perhaps it is this alone that has prevented many from giving the fubject fo patient a hearing as its importance feems to require. It is a faflionable kind of plilofophy to attribute to the human mind very pre-eminent powers, which fo flatter our pride, as in a great meafure, perhaps, to pervert our reafon, and blind our judgement. The hifory of the world, and of the difpenfations of Gud to man, are certainly at variance with the populnr doctrine refpecting the origin of civilization : for if the human mind be poffeffed of that innate vigour which that doctrine attributes to it, it will be extremely dificicult to account for thofe numerous facts which feem with irrefitible evidence to proclain the contrasy; for that unceafing care with which the Deity appears to have watched over us; and for thofe various and important revelations He was vouchfafect to us. Let us rejoice and be thankful that we are men, and that we are Chrifians; but let not a vain philofoplyy tempt us to imagine that we are angels or gods.

SAIVAGE I/:and, one of the fmall iflands in the South fea, lying in S. Lat. 19. I. W. Long. 169. 37. It is about feven leagues in circuit, of a good height, and has deep water clole to its fhores. Its interior parts are fuppofed to be barren, as there was no foil to be fe:i upon the coatt ; the rocks alone fupplying the tress with hum:dity. The inhabitants are exceedingly warlike and fierce, to that Captain Cook could not have any intercour'e with them.

SAVANNA fa Mar, a town of Jam ica, fituated in the cuonty of Coramall in that i.lme. It is the county-town, whete the atize cour'h are held. T is town was alin ft tollily defrume 1 i. 1781 by a carthquake and in ndains, when mony of the inhabilants petifled. It has 1 ow an clegant court houfe, and con1. Is about one hundred other houfes. It belongs to Weilmoreland parilh, in whith are 89 Cugazecfiates, $1=6$ otl.er eftates, and I 8,000 flancs.

SAVANNAH, formorly the capital of Gereia in Suvan ah, North America, fituated on a river of the fame name, Savary, and 17 miles from its mouth, in W. Long. 80. 20. N. Let. 32. o. This town is regularly built in fum of a parallecogram.
SAVARI, J.mes, an eminent French writer on the fubject of trade, was 'orn at Done, in Anjou, in 1622. Being bred to merchandife, he continued in trade un. til 1653 ; when we left off the practice, to cultivate the theory. He had married in 1650 ; and in 1662 , when the king declared a purpofe of afli ming privile is and penfions to luch of his lubjects as had twelve cindren alive, Mr Savary was not too nich to put in his claim to the royal bounty. He was aiterwards admitted of the council for the reformation of commerce; and the orders which paffed in 1670 were drawn up by his inftructions and advice. He wrote Le Parfait Ncgociant, 4 to ; and, Avis at confeils fur les importantes matieres du Commerce, in $4^{\text {to }}$. He died in 1690 ; and out of 17 children whom he had by one wife, left 11. Two of his fons, James and Philemon Lewis, laboured jointly on a great work, Dichionnaire Univerfelle du Commerce, 2 vols folio. This work was begun by James, who was infpector general of the manufactures at the cuftomhoufe, Paris; who called in the alliftance of his brother Philemon Lewis, although a canon of the royal church of St Maur; and by his death left him to finir? it. This work appeared in 1723, and Philemon afterwards added a third lupplemental volume to the furmer. Puftlethrsayte's Engliih Dittionaty of 'Trade and Commerce is a tranflation, wih conliderable improvement:, from Savary.

Savary, an eminent French traveller and writer, was born at Yitre, in Brittany, about the year 1748 . He ftudied with applaufe at Rennes, and in 1776 travelled into Egypt, where he remained almolt three years, During this period he was wholly engaged in the fludy of the Arabian language, in fearching out ancient monuments, and in examining the national manners. After making himfelf acquainted with the knowledge and philsfophy of Egypt, he viified the illands in the Archinelago, where he fpent 18 months. On his retura to France, in 1580 , he publifhed, I. A iliranfation of the Koran, with a thort Life of Mahomet, in 1783 , 2 vols Sro. 2. The Morality of the Koran, or a collection of the moft excellent maxims in the Koran; a work extracted from his tranflation, which is eicomed both elegant and faithful. 3. Letters on Egypt, in 3 vols 8 vo, in 1785 . In thefe the author makes his obfervations with ac uracy, paints wilh vivacity, ard renders interallina enery thing he relaics. Hi defor (iw is are in se cural in $1 /$ fo, but are perhaps in fome imlances too much ormanituled. He has been ywity cenfured for painting modern Egypt and its inhauitants in too high colours. Thefe letters, howe ere, were botght upby the curious pullic, and read with pleafure and advant. ge. Encourated by this thattcring reception, lie prepared kis letters upon Greece. He died tion ther at Paris of a molady contract-d from too intemie ap lication. A lenflibe ofyraction in the right lobe of the liver hal made ad ifis- pregrefi, which the return of fummer, fi fe fimple medicines, a itrict reoincr, and travcilins, feemed to rem ve.
()n his return into the country adjacent to Pari,

kinown that when the organization of one of the vifecra has been much deranged, deep traces of it will ever remain. His active mind, towerer, made him regardlefs of his heal:h, and he conceived it his duty to profit by thofe appearances of recovery which he experienced at the clofe of the fummer and the beginning of autumn, to put into order his traveis into the iflands of the Archipelago, intendid as a continuation of his letters on Egypt. His warmth of temper was exalperated by fome lively criticifms which had been made on his former productions, and he gave himfelf up to ftudy with a degree of activity of which the confequences were fufficiently obvious. An obftruction in the liver again took place, and made a netv progrefs; his digeftion became extremely languid; ficep quite forfook him, both by night and by day; a dry and troublefome cough came on ; his face appeared bloated, and his legs more and more inflamed. The ufe of barley-water and cream of tartar fill however promoted, in fome degree, the urinary feeretions, and afforded fome little glimmering of hope. In this fituation he returned to Paris in the beginning of the vear $1-88$, to attend to the publication of his new work concerning the iflands of the Archipelago, particularly the ifle of Candia. He had then all the fymptoms of a dangerous dropfy, which became ftill more alarming from the very exhaufted ftate of the vifeera. The right lobe of the liver was extremely hard and fenfible. The patient had fhiverings without any regular returns, and his flrength was undermined by a hectic fever. At the fame time fill more uneafy fymptoms tock place, thofe of a dropfy in the cheit ; but the circumftanees which deftroyed all hope, and announced his approaching diflolution, were a fevere pain in the left fide, with a very troublefome cough, and a copious and bloody expectoration (in hepaticis, fays Hippocrates, fputum cruentum mortiferum); his refpiration became more and more difficult; his ftrength was exhaufted, and his death took place on the 4 th of February 1788 , attended with every indication of the moot copious overflowing in the cheft, and of an abfeefs in the liver.Thus was deftroyed, in the vigour of his age, an author whofe character and talents rendered him worthy of the happieft lot.

Mr Savary's genius was lively and well cultivated ; his heart warm and benevolent; his imagination vigorous; his memory retentive. He was cheerful and open ; and had fo great a talent for telling a ftory, that his company was not lefs agreeable than inftructive. He did not mingle much with the world, but was fatisfied with performing well the duties of a fon, of a brother, and of a friend.

SAUCISSE, or SAuclssos, in mining, is a long pipe or bag, made of eloth well pitched, or fometimes of leather, of about an inch and a half diameter, filled svith powder, going from the chamber of the mine to the entrance of the gallery. It is generally placed in a wooden pipe called an auget, to prevent its growing damp. It ferves to give fire to mines, cailfons, bombchefts, \&cc.

Saucrsson, is likewife a kind of fafcine, longer than the common ones: they ferve to raife baticries and to repair breathes. They are alfo ufed in making epaulements, in foppoing paffages, and in mahing traverfes over : wet ditch, \&c.

SAV:, a river of Germany, which has its fource in Upper Carniuld, on the frontiers of Carinthia. It runs
through Carniola from weft to eaft, afterwards feparates Saverdroog Sclavonia from Croatia, Bofnia, and part of Scrvia, and then falls into the Danube at Belgrade.

SAVENDROOG, a itrong fortrefs of Hiridufan, in the Myfore hingdom. It is lituated on the fumnait of a valt rock, meafuring about half a mile in perpendicular height, its bale being upwards of eight miles in circumference, and divided by a chalm at the top, by which it is formed into two hills, each having a pectiliar kind of defence. They anfwer the purpofe of two citadels which are capable of being maintained, independent of the lower works, which are remarkably ftrong. It was, however, taken by the gallantry of Britioh troops in the year 1/791, after a ficge of feven days continuance. It is 18 niles weft of Bangalore. See India, $\mathrm{N}^{\circ} 167$.

## SAVEli-krout. See Kroute.

SAVERNAKE-Forest, is fituated near Marlborough in Wilthire, and is 12 miles in circumference, well focked with deer, and delightful from the many viltas cut through the woods and coppices with which it abounds. Eight of thefe siftas meet, like the rays of a ftar, in a point near the middle of the foreft, whicre an octagon tower is erected to correfpond with the viftas; through one of which is a view of Tottenham Park, Lord Ailefbury's feat, a ftately edifice erected after the model, and under the dirction, of our modern Vitruyins, the carl of Burlington, who to the frength and convenience of the Englift architecture has added the clegance of the Italian.

SAVILE, Sir George, afterwards marquis of Halifax, and one of the greateft flatefmen of his time, was born about the year 1630 ; and fome time after his return from his travels was created a peer, in confideration of his own and his father's merits. He was a firenuous oppofer of the bill of exclufion; but propofed fuch limitations of the duke of York's authority, as fhould difable him from doing any harm either in church or flate, as the taking out of his hands all power in ecelefiaftical matters, the difpofal of the public money, and the power of making peace and war ; and lodging thefe in the two houfes of parliament. After that bill was rejected in the houfe of lords, he preffed them, though without fuceefs, to proceed to the limitation of the duke's fower ; and began with moving, that during the king's life he might be obliged to live five hundred miles out of England. In Augaft 1682 he was created a marquis, and foon after made privy. feal. Upon King James's acceffion, he was made prefident of the council ; but on his refufal to confent to the repeal of the teft, he was difnified from all public cmployments. In that affembly of the lords which met after King James's withdrawing himfelf the firt time from Whileball, the marquis was chofen their prefident , and upon the king's return from Feverfham, be was fent, toget ther with the earl of Shrewfbury and lord Delamere, from the prince of Orange, to order his majofly to quit the palace at Whitehall. In the convention of parliament he was chofen fpeaker of the looufe of lords, and litre. nuoufly fupported the motion for the vareaney of the throne, and the conjunctive fovereignty of the prince and princefs: upon whofe acceffion he was again mado privy= feal. Yet, in 1689 , he quitted the court, and became a zealous oppofer of the meafures of governmont till hic death, which happened in April 1695 . The Rev. Mz

Grainges

Grainger obferves, that " he was a perfon of unfettled principles, and of a lively imagination, which fometimes got the better of his judgement. He would never lofe his jett, though it fooiled his argument, or brought his fincerity or even his religion in queftion. He was dcfervedly celebrated for his parliamentary talents; and in the famous conteft relating to the bill of cxclufion was thought to be a match for his uncle ShaftBury. The pieces he has left us thow him to have been an ingenious, if not a mafterly writer; and his Advice to a Daughser contains more good fenfe in fewer words then is, perhaps, to be found in any of his contemporary authors." His lordihip alfo wrote, The Anatomy of an Equivalent; a Letter to a Diffenter; a Rough Draught of a New Model at Sea; and Maxims of State; all which were printed together in one volume 8vo.Since thefe were alfo publifhed under his name the Character of King Charles II. 8vo; the Character of Bithop Burnet, and Hiftorical Obfervations upon the reigns of Edward I. II. III. and Richard II. with Remarks upon their faithful Counfellors and falfe Favourites.

SAVille, Sir Henry, a learned Englifhman, was the fecond fon of Henry Saville, Efq. and was born at Bradley, near Halifax, in "Yorkhire, November the 30th, 1549 . He was entered of Merton College, Oxford, in 156 I , where he took the degrees in arts, and was chofen fellow. When he proceeded mafter of arts in 1570, he read for that degree on the Almageft of Ptolemy, which precured him the reputation of a man eminently fkilled in mathematics and the Greek language; in the former of which he voluntarily read a public lecture in the univerfity for fome time.

In 1578 he travelled into France and other countries; where, diligently improving himfelf in all ufeful learning, in languages, and the knowledge of the world, he became a moit accomplihed gentleman. At his return, he was made tutor in the Greek tongue to Queen Elizabeth, who had a great efteem for him.

In $15^{8} ;$ he was made warden of Merton College, which he governed 36 years with great honour, and improved it by all the means in his power.-In 1596 he was chofen provoft of Eton College; which he filled with many learned men.-James I. upon his acceffion to the crown of England, exprefled a great regard for him, and would have preferred him either in church or fate; but Saville declined it, and only accepted the ceremony of knighthood from the king at Windfor in 1604. His only fon Henry dying about that time, he thenceforth devoted his fortune to the promoting of learning. Among other things, in 1619, he founded, in the univerfity of Oxford, two lectures, or profefforfhips, one in geometry, the other in aftronomy; which he endowed with a falary of 1601 . a-year each, befides a legacy of 600 . to purchafe more lands for the fame wfe. He alfo furnifhed a library with mathematical books, near the mathematical fchool, for the ufe of his profeffors; and gave 1001 . to the mathematical cheft of his own appointing: adding afterwards a legacy of 401 . a-year to the fame cheft, to the univerfity, and to his profeffors jointly. He likewife gave 1201. cowards the new building of the fchools, befide feveral rare manufcripts and printed books to the Bodlcian library; and a good quantity of Greek types to the printing prefs at Oxford.

After a life thus fpent in the encouragement and promotion of fcience and literature in general, he died at Eton College the 19th of February 1622, in the 73d year of his age, and was buried in the chapel there. Ont this occafion, the univerfity of Oxford paid him the greateft honours, by having a public fpeech and verfis made in his praife, which were publified foon after in 4 to, under the title of Ulima Linea Savilii.

The higheft encomiums were beflowed on Saville by all the learned of his time : by Cafaubon, Mercerus, Meibomius, Jofeph Scaliger, and efpecially the learned Bifhop Montague ; who, in his Diatriba upon Selden's Hitory of Tythes, ftyles him, "that magazine of learning, whofe memory ftall be honourable amongit not only the learned, but the righteous for ever." His works are,

1. Four Books of the Hiltories of Cornelius Tacitus, and the Life of Agricola; with Notes upon them, in folio, dedicated to Queen Elizabeth, $1581 .-2$. A. View of certain Military Matters, or Commentaries concerning Roman Warfare, 1 598.-3. Rerum Anglicarum Scriptores pof Bedam, \&c. 1596 . This is a collection of the beft writers of our Englifh hiftory; to which he added chronological tables at the end, from Julius Cafar to William the Conqueror.-4.The Works of St Chryfoftom, in Greek, in 8 vols folio, ${ }^{161} 3$. This is a very fine edition, and compofed with great coft and labour. In the preface he fays, "that having himfelf vifited, about 12 years before, all the public and private libaries in Britain, and copied out thence whatever he thought ufeful to this defign, he then fent fome learned men into France, Germany, Italy, and the Eaft, to tranfcribe fuch parts as he had not already, and to collate the others with the beft manufcripts." At the fame time, he makes his acknowledgments to feveral eminent men for their affiftance; as Thuanus, Velferus, Schottus, Cafaubon, Ducæus, Gruter, Hoefchelius, \&c. In the 8th volume are inferted Sir Henry Saville's owrs notes, with thofe of other learned mien. The whole charge of this edition, including the feveral fums paid to learned men, at home and abroad, employed in finding out, tranfcribing, and collating the beff manufcripts, is faid to have amounted to no lefs than 800 cl . Several editions of this work were afterwards publified at Paris. -5. In 1618 he publifhed a Latin work, written by Thomas Bradwardin, archbilhop of Canterbury, againit Pelagius, entitled, De Caufa Dei contra Pelagium, et de virtute caufarum; to which he prefised the life of Brad-wardin.-6. In 1621 he publifhed a collection of his own Mathematical Lectures on Euclid's Elements, in 4to.-7. Oratio coram Elizabctha Regina Oxanice ha* lita, anno 1592. Printed at Oxford in 1658, in 4 to. -8. He tranflated into Latin King James's A pology for the Oath of Allegiance. He alfo left feveral manufcripts behind him, written by order of King James; all which are in the Bodleian library. He wrote notes likewife upon the margin of many books in his library, particularly Eufebius's Ecclefiaftical Hiftory ; which were afterwards ufed by Valefius, in his edition of that work in 1659.-Four of his letters to Camden are publifhed by Smith, among Camden's Letters, 1691 , 4 to.

SAVIN, in Botany. See Juniperus, Botaxi Index.
SAVIOUR, an appellation pcculiarly given to Jefus 3 I Chrin,

Saul Chrift, as being the Mefitiah and Saviour of the world. $\#$ See Iescs.

Order of St SAlITOUR, a religious order of the Romifh church, founded by St Bridget, about the year ${ }^{1} 3+5$, and fo called from its being pretended that our Saviour himfelf declared its conflitution and rules to the foundrefs. According to the coantitutions, this is principally founded for religious women who pay a particular honour to the holy virgin ; but there are fome monks of the order, to admisilter the facrament and frivitual affiltance to the nuns.

SAUL the fon of Kiih, of the tribe of Benjamin, was the firft king of the Iiraelites. On account of his difobedient conduat, the hingdom wras taken from his family, and given to David. See the Firl Book of Samuel.

Saul, otherwife called Paul. See Paul.
SAUMUR, a confiderable town of France, in the department of Maine and Loire, and capital of the Saumarois, with an ancient cafle. The town is fmall, but pleafantly fituated on the Loire, acrols which is a long bridge, continued through a number of illands. Saumur was anciently a molt important pafs over the river, and of confequence was frequently and fiercely dipputed by either party, during the civil wars of France in the fixteenth centary. The fortiications are of great frength, and Henry IV. on the reconciliation which took place between him and Henry III. near Tours, in 1589 , demanded that Saumur f.ould be delivered to him, as one of the cilies of fafety. The caftle overlools the town and river. It is built on a lofty eminence, and has a venerable and magnificent appearance, and was lately ufed as a prifon of itate, where ferfons of rank were frequently confined. The kings of Sicily, and dukes of Anjou of the houfe of Valo:s, who defcended from John king of France, often sefided in the cafte of Saumur, as it conlituted a part of their Angevin dominions. E. Long. O. 2. N. Lat. 47.15 .

SAUNDERS, a kind of wood brought from the Eaft Indies, of which there are three kinds; white, yellow, and red. See Pterocarpus and Santalun, Botany Index.

SAUNDERSON, Dr Robert, an eminent cafuif, was born at Rotherlam in Yorkihire on the 19th September 1587 , and was defcended of an ancient family. He attended the grammar-fchool at Rotherham, where he made fuch wonderful proficiency in the lansuages, that at 13 it was judged proper to fend him to Lincoln college, Oxford. In 1608 he was appointed logic reader in the fame college. He took orders in 1611 , and was promoted fucceflively to feveral benefices. Archbihop Laud recommended him to King Charles I. as a profound cafuit ; and that monarch, who feems to have been a great admirer of cafuiltical learning, appointed him one his chaplains in 1631 . Charles propofed feveral cafes of confcience to him, and received fo great farisfaction from his anfwers, that at the end of his month's attendance he told him, that he would wait with impatience during the intervening 11 months, as he was refolved to te more intimately acquainted with him, when it would again be his turn to officiate. The king regularly attended his fermons, and was wont to fay, that "he carried his ears to hear other preacheis, but his confcience to hear Mr Saunderfon."

In 1642 Charles created him regius profetior of di-Suunde. for vinity at Oxford, with the canonry of Chrift church annexed : but the civil wars prevented him till 1646 from entering on the office; and in $10 \neq 8$ he was ejected by the vifitors which the parlizment had commiflioned. He murt have food high in the public opinion; for in the fame year in which he was appointed profeflor of divinity, both houfes of parliament, recommended him to the king as one of their truftees for fetting the affairs of the church. The king, too, repofed great confidence in his judgement, and frequently coufulted him about the ftate of his affairs. When the palliament propofed the abolition of the epifcopal form of church-government as incompatible with monarchy, Charles defired him to take the fubject under his confideration, and deIiver his opinion. He accordingly wrote a treatife entitled, Epificopacy as eftablihied by law in England not prejudicial to regal power. At taking leave, the king advofed him to publith Cafes of Confcience: he replied, that " he was now grown old and unfit to write cafes of confcience." The king faid, "it was the fimpleft thing he ever had heard from him; for no young man was fit to be a judge, or write cales of confcience." Walton, who wrote the life of Dr Suunderfon, informs us, that in one of thefe conferences the king told him (Dr Saunderfon), or one of the reft who was then in company, that "the remembrance of two errors did much affeet him; which were his affent to the earl of Strafford's death, and the abolifhing of epifcopacy in Scotland; and that if God ever rellured him to the peaceable poffelion of his crown, he would prove his repentance by a public confeffion and a volustary penance, by walking barefoot from the Tower of London, or Whitehall, to St Paul's church, and woutd defire the people to intercede mith God for his pardon."

Dr Saunderfon was taken prifoner by the parliament's troops and conreyed to Lincoln, in order to procure in exchange a Puritan divine named Clark, whom the king's army had taken. The exchange was agreed to, ois condition that Dr Suunderfon's living fhould be reflored, and his perfon and property remain unmolefted. The firlt of thefe demands was readily complied with: and a llipulation was made, that the fecond fhould be obferved; but it was-impoffible to refrain the licentioufnefs of the foldiers. They entered his charch in the time of divine fervice, interrupted him when reading prayers, and even had the audacity to take the comnon prayer book from him, and to tear it to pieces.

The honourable Mr Bovle, having, read a work of Dr Saunderfon's entitled De juramenii obligatione, was fo much pleafed, that he inquired at Biitop Barlow, whether he thought it was poffible to prevail on the author to write Cafes of Confcience, if an honorary penfion was affigned him to enable him to purchale books, and pay an amanuenfis. Szunderfon told Barlow, "that if any future tract of his could be of any ufe to mankind, he would cheerfully fet about it without a penfion " Boyle, however, fent limm a prefent of $5=1$. ferifible no doubt, that, like the other royalifts, his finances could not be great. Upon this Saundurfon publihhed his book De Conficurtia.

When Charles II. whs reinftated in the throne, he recovered his profefurfip and canopry, and 'foon after was promoted to the bifhopric of Lincoln. During

Sumiderfon. the two years and a half in which he poffeffed this new ollice, he fpent a confiderable fum in augmenting poor vicarages, in repairing the palace at Bugden, \&c. He died January 29. $1662-3$, in his $76{ }^{\prime} \mathrm{h}$ year.

He was a man of great acutenels and folid judgement. " That itaid and well-weighed man Dr Saunderfon (fays Dr Hammond) conceives all things deliberately, dwells upon them difcreetly, difcerns things that differ exactly, paffeth his judgement rationally, and expreffes it aptly, clearly, and honetly." Being afled, what buoks he had read moft? he replied, that "he did not read many books, but thofe which he did read were well chofen and frequently perufed." Thefe, he faid, were chietly three, Ariftotie's Rhetoric, Aquinas's Secunda Securdie, and Tully's Works; eipecially his Orices, which he had not read over lefs than 20 times, and could even, in his old age, recite without book." He added, that " the learned civilian Dr Zouch bad written Elcmonta juris prudentic, which he thought he could alfo fay without book, and that no wife man could read it too often." He was not only converfant with the fathers and fchoolmen, with cafuiltical and controverfial disinity; but he was well acquainted with all the hiftories of the Englifh nation, was a great antiqualy, had fearched minutely into records, and was well fkilled in heraldry and genealogy.

It will now be proper to give a thort account of his works. 1. In 1615 he publifined Logice Artis Compendium, which was the fyftem of lectures he had delivered in the Univerfity when he was logic-reader. 2. Sermons, amounting in number to 36 , printed in 1681 , folio, with the author's life by Walton. 3. Nine Cafes of Confcience refolved; firt collected in one volume, in $1678,8 \mathrm{vo}$. 4: De jurancenti chligatione. This book was tranflated into Englifh by Charles 1. while a prifoner in the ille of Wight, and printed at London in $1655,8 \mathrm{vo}$. 5. De Obligatione confrientiz. 6. Cenfure of Mr Antony Afcham his book of the confufions and revolutions of government. 7. Pax Ecclefice concerning Predeftination, or the five points. 8. Epifcopacy, as eftablithed by law in England, not prejudicial to the regal power, in 1661 . Befides thefe, he wrote two Difcourfes in defence of Uher's writings.

Saunderson, Dr Nicholas, was born at Thurlfone in Yorkftuire in 1682, and may be confidered as a prodigy for his application and fuccefs in mathematical literature in circumftances apparently the moit unfavourable. He lof his fight by the frallpox before he was a year old. But this difatter did not prevent him from fearching after that knowledge for which nature lad given $\operatorname{bim}$ fo ardent a defire. He was initiated into the Greek and Roman authors at a free fchool at Pennifton. Afier fpending fome rears in the fudy of the languages, his father (who had a place in the excife) began 10 teach him the common rules of arithmetic. He foon furpaffed his father; and could make long and difficult calculations, without having any fenfible marks to affift his memory. At 18 he was taught the principles of algehra and geometry by Richard Weft of Undoorbank, Efq. who, though a gentleman of fortune, yet, being firongly attached to mathematical learning, readily undertook the education of fo uncommon a genius. Saunderfon was alfo affilted in his mathematical ffudies by Dr Nettleton. Thefe two gentlemen read bouk to him and explained them. He was next fent
to a private academy at $\Lambda$ ttercliff near Sheifield, where Saunlerf logic and metaphyfics were chietly taught. Thut thete fciences not fuiting his turn of mind, he foon left the academy. He lived for fume time in the country wich. out any inftructor; but fuch was the vigour of his own mind, that few inltructions were neceffary : lee only required books and a reader.

His father, befides the place he had in the excife, poffelied alfo a fmall eitate; but baving a numerous family to fupport, he was unable to give him a liberal education at one of the univerfities. Some of his friends, who had remarked his peripicuous and interefting manner of communicating his ideac, propoled that he thould attend the univerfity of Cambidge as a teacher of mathematics. This propofal was immediately put in execution ; and he was accordingly conducted to Cambridge in his $25^{\text {th }}$ year by Mr Johha Dunn, a fellowcommoner of Chrift's college. Though he was not received as a member of the college, he was treated with great attention and relpect. He was allowed a chamber, and had free accets to the library. Mr Whifon was at that time profeffor of mathematics; and as he read lectures in the way that Saunderfon intended, it nas naturally to be fuppofed he would view his project as an invation of his office. But, inftead of meditating any oppofition, the plan was no fooner mentioned to him than he gave bis confent. Saunderion's reputation was foon fpread through the univerfity. When his lectures were announced, a general curiofity was excited to bear fuch intricate mathematical fubjects explained by a man who had been blind from his infancy. The fubject of his lectures was the Principia Dathemaiica, the Optics, and Arithmetica Univerýalis of Sir liaac Newton. He was accordingly attended by a very numerous audience. It will appear at firft incredible to many that a blind man fhould be capable of explaining optics, which requires an accurate knowledge of the nature of light and colours; but we mult recolleĉ, that the theory of vifion is taught entirely by lines, and is fubject to the rules of geometry.

While thus emploved in explaining the principles of the Newtonian philolophy, he became known to its illuttrious author. He was allo intimately acquainted with Halley, Cotes, De Moivre, and other eminent mathematicians. When Whifton was removed from his profefforthip, Saunderfon was univerfally allowed to be the man beft qualified for the fucceflion. But to enjoy this office, it was neceffary, as the ftatutes direct, that he fhould be promoted to a degree. To obtain this privilege the heads of the univerfity applied to their chancellor the duke of Somerfet, who procured the royal mandate to confer upon him the degree of mafter of arts. He was then elected Lucafian profefior of mathematics in November 1711. His inauguration fpeech was compofed in clafical Latin, and in the Ayle of Cicero, with whole works he had been much converfant. He now devoted his whole time to his lecture, and the inftruction of his pupils. When Gcorgc 11. in 1728 , vilited the univerfity of Cambridge, he Exprefied a defire to fee Profeffor Saunderfon. In compliance with this defire, he waited upon his miefty in the fenate-houfe, and was there, by the king's command, created doctor of laws. He was admitted a mensber of the lioyal Society in 17.36.

Saunderfon was naturally of a vigorove conftitution,

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sear io fon. but fiaving confined himfelf to a fedentary life, he at length became forbutic. For feveral ycars he felt a numbnefs in his limbs, which, in the fpring of 1739 , brought on a mo:tification in his foot; and, unfortunately, his blood was fo vitiated by the fcurvy, that atifitance from medicine was not to be expected. When he was informed that his death was near, he remained for a little fpace calm and filent; but he foon recovered his former vivacity, and converfed with his ufual eafe. He died on the Igth of April 1739, in the 57 th year of his age, and was buried at his own requeft in the chancel at Boxworth.

He married the daugkter of the reverend Mr Dickens, rector of Boxworth, in Cambridegentire, and by her had a fon and danghter.

Dr Saunderfon was rather to be admired as a man of wonderful genius and affiduity, than to be loved for amiable qualities. He fooke his fentiments freely of characters, and praifed or condemned his friends as well as his enemies without referve. This has been afcribed by fome to a love of defamation; but perhaps with more propriety it has been attributed by others to an inflexible love of truth, which urged him upon all occafions to fpeak the fentiments of his mind without difguife, and without confidering whether this conduct would pleafe or give offence. His fentiments were fuppofed unfavourable to revealed religion. It is faid; that he alleged he could not know God, becaufe he was blind, and could not fee his works; and that, upon this, Dr Holmes replied, "Lay your hand upon yourfelf, and the organization which you will feel in your own body will diflipate fo grofs an error." On the other hand, we are informed, that he had defired the facrament to be given him on the evening before his death. He was, however, feized with a delirium, which rendered this imporible.

He wrote a fyftem of algebra, which was publifhed, in 2 volumes $4^{\text {to }}$, at Loudon, after his death, in the year 1740, at the expence of the univerfity of Cambridge.

Dr Saunderfon invented for his own ufe a Palpable Arithmetic; that is, a method of performing operations in arithmetic folely by the fenfe of tonch. It confifted of a table raifed upon a fmall frame. fo that he could apply his hands with equal eafe above and below. On this table were drawn a great number of parallel lines which were crofled by others at right angles; the edges of the table were divided by notches half an inch diftant from one another, and between each notch there were five parallels; fo that every fquare inch was divided into a hundred little \{quares. At each angle of the fquares where the parallels interfected one another, a hole was made quite through the table. In each hole he placed two pins, a big and a fmall one. It was by the various arrangements of the pins that Saunderfon performed his operations. A defcription of this method of making calculations by his table is given under the article Brind, $\mathrm{N}^{0} 38$. though it is there by miftake faid that it was not of his own invention.

His fenfe of touch was fo perfect, that he could difeover with the greatelt exactnefs the fightef inequality of furface, and could diftinguilh in the moft finifhed works the fmalleft overfight in the polifh. In the cabinet of medals at Cambridge he could fingle out the Roman medals with the utmoft correctnefs; he could alfo perceive the flighte t variation in the atmofphere. One
day, while fome gentlemen were making obfervations on-Saundeffot. the fun, he took notice of cvery little cloud that paffed over the fun which could interrupt their labours. When any object paffed before his face, even though at fome diftance, he difcovered it, and could guefs its fize with confiderable accuracy. When he walked, he knew when he puffed by a tree, a wall, or a houfe. He made thefe diftinctions from the different ways his face was affected by the motion of the air.

His mufical ear was remarkably acute; he could diftinguifh accurately to the fifth of a note. In his youth he had been a performer on the flute; and he had made fuch proficiency, that if he had cultivated his talents in this way, he would probably have been as eminent in mufic as he was in mathematics. He recognized not only his friends, but even thofe with whom he was flightly acquainted, by the tone of their roice; and he could judge with wonderful exactnefs of the fize of any apartment into which he was conducted.

SAVONA, a large, handfome, populous, and Arong town of Italy, in the territory of Genoa, with two caftles, and a bifhop's fee. It contains feveral handfome churches and well built Atructiures. It was taken by the king of Sardinia in 1746 , at which time it bad a capacious harbour ; but the people of Genoa, being afraid that it would hurt their own trade, choked it up. It is feated on the Mediterranean fea, in a well-cultivated country, abounding in filk and all kinds of good fruits E. Long. 8. 14. N. Lat. 44. 21.

SAVONAROLA, Jrerome, a famous Italian monk, was born at Ferrara in 1452, and defcended of a noble family. At the age of 23 he affumed the habit of a Dominican friar, without the knowledge of his parents, and dittinguifhed himfelf in that order by his piety and ability as a preacher. Florence was the theatre where he chofe to appear; there he preached, confeffed, and wrote. He had addrefs enough to place himfelf at the head of the faction which oppofed the family of the Medici. He explained the Apocalypfe, and there found a prophecy which foretold the deftruction of his opponents. He predicted a renovation of the church, and declaimed with nuch feverity againft the clergy and the court of Rome. Alexander VI. excommunicated him, and prohibited him from preaching. He derided the anathemas of the pope: yet he forbore preaching for fome time, and then refumed his employment with more applaufe than before. The pope and the Medici family then thought of attacking him with his own weapons. Savonarola having pofted up a the es as a fubject of difputation, a Francifcan, by their inftigation, offered to prove it heretical. The Francifcan was feconded by his brother friars, and Savonarola by his; and thus the two orders were at open war with each other. To fettle the difpute, and to convince their antagonifts of the fuperior fanctity of Savonarola, one of the Dominicans offered to walk through a fire; and in order to prove his wickednefs, a Francifcan agreed to the fame esperiment. The multitude, eager to witnefs fo extraordinary a fpectacle, urged both parties to come to a decifion; and the magiftrates were conftrained to give their confent. Accordingly, Saturday the 7 th of April 1498 was fixed for the trial. On that day the champions appeared; but when they faw one another in cold blood, and beheld the wood in flames, they were feized with fear, and were very anxions to efcape by any fubterfurce the immi-

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Saponarola nent danger into which they had rafhly thrown themfelves. The Dominican pretended he could not er.ter the flames without the hoit in his band. This the magiltrates obitinately refuited to allow ; and the Dominican's fortitude was not put to the teft. The Francifcans incited the maltitude againft their opponents, whu accordingly aftauited their monattery, broke open the gates which were that againtt them, and entered by force. Upon this, the magiltrates thought it neceflary to bring Sivonaroia to trial as an impoftor. He was put to the torture, and examined; and the anfwers which he gave fully evinced that he was both a cheat and a fanatic. He oualted of having frequent converfations witls God, and found his brother friars credulous enough to belicre him. One of the Dominigans, who had thared in his fufferings, affirmed, that he faw the Holy Ghoft in the lhape of a dove, with feathers of gold and filver, twice in one day alight on the fhoulder of Savonarola and peck his ear ; he pretended alfo that he had violent combats with demons. John Francis Picus earl of Mirandula, who wrote his life, affures us, that the devils which infeited the convent of the Dominicans trembled at the fight of Fiar Jerome, and that out of vexation they always fupprefied fome letters of his name in pronouncing it. He expelled them from all the cells of the monaftery. When he went round the convent fprinkling holy water to defend the friars from the infults of the demons, it is faid the evil fpirits fpread thick cloads before him to prevent his palfage. At length, the pope Alexander VI. fent the chief of the Dominicans, with Bifhop Romolino, to degrade him from holy orders, and to deliver him up to the fecular judges with his two fanatical alfociates. They were condemned to be hanged and burned on the 23 N May $149^{8}$. Savonarola fubmitted to the execution of the fentence with great firmnefs and devation, and without uttering a word refpecting his innocence or his guilt. He was 46 years of age. Im nediately after his death, his Confeffion was publithed in his name. It contained many sutravagancies, but nothing to deferve fo fevere and infamous a punilhment. His adherents did not fail to attribute to him the power of working miracles; and fo ftrong a veneration had they for their chief, that they preferved with pious care any parts of his body which they could fnatch from the flames. The earl of Miran dula, the author of his life, has defcribed him as an eminent faint. He gravely informs us, that his heart was found in a river; and that he had a piece of it in his poffeffion, which had been very ufeful in curing dofeafes, and ejecting demons. He remarks, that many of his perfecutors came to a miferable end. Savonarola has alfo been defended by Father Quetif, Bzovius, Baron, and other religious Dominicans.

He wrote a prodigious number of books in favour of seligion. He has left, 1. Sermons in italian; 2. A Treatile entitled, Triumphus crucis; 3. Eruditorum Confefforum, and feveral others. His works have been pubbilhed at Leyden in 6 vols 12 mo .

## SAVGRY, Sce Satureia, Botany Index.

SAVOUl. See Tave.
SAVOY, formerly a duchy, now a department of France, lying between the latter and Italy, and which takes its name frow the Latin Sabaadia, altered afterwards to Saboia, and Sobojia.

Thiscountry was anciently inlabited by the Celtes,
whofe deicendants therein were fubdivided into the Allobroges, Nantuates, Veragri, Seduni, Salaffi, Centrones, Garocelii, and fome others of inferior note.-Of all thefe the Allubroges were the molt confiderable. Ths reduction of thefe tribes, in which Julius Cæfar had made a great progrefs, was completed under Augultus. Afterwards this country hlared the fate of the reft of the wettern empire, and was overrun by the northera barbarians. The Burgundians held it a confiderable time; but when or how it firlt became a diflinet carldom under the prefent family, is what hiforians are not agreed about: thus much, however, is certain, that Amadxus I. who lived in the i 2 th century, was count of it. In if16, Amadæus VIII. was created by the emperor Sigilnund duke of Savoy; and Victor Amadaus frif took the title of king of Sicily, and afterwards of Sardinia. See Sardinia. Savoy was lately conquered by the French, and added to the republic as the 80 th department. As this arrangement, though decreed by the convention to lalt for ever, may probably be of fhort duration, we fhall write of the duchy as of an independent itate. Savoy, then, is bounded to the fouth by France and Piedmont ; to the north by the lake of Geneva, which feparates it from Switzerland; to the welt, by France ; and to the eaft, by Piedmont, the Milanefe, and Switzerland; its greatell length bcing about 88 miles, and breadth about 76 .

As it lies among the Alps, it is full of lofty mountains, which in general are very barren: many of the higheit of them are perpetually covered with ice and frow. The fummit of thofe called Montagnes Mloudites, "the curfed mountains," are faid to be more than two Englifh miles in perpendicular height above the level of the lake of Geneva, and the level itfelf is much higher than the Mediterranean. In fome few of the valleys there is corn land and pafture, and a good breed of cattle and mules; and along the lake of Geneva, and in two or three other places, a tolerable wine is produced. Mount Senis or Cenis, between Savoy and Piedmont, over which the highway from Geneva to Turin lies, is as high, if not higher, than the Montagnes Maudites; but of all the mountains of the Alps, the highent is Mount Rochmelon, in Piedmont, between Fertiere and Novalefe. The roads over thefe mountains are very tedious, difagreeable, and dangerous, efpecially as huge maffes of fnow, called by the Italians avalanches, and fragments of rocks, frequently roll down into them from the impending precipices. The way of travelling is either in fiedges, chairs, or on the backs of mules: in fome places the path on the bririk of the precipices is fo narrow, that there is but jult room for a fingle perlon to pals. It begins to fnow on thefe mountains commonly about the beginning of Ottober. In fummer, in the months of July, Auguit, and Scptember, many of them yield very fine grafs, with a great variety of dowers and herbs; and others boxwood, walnuts, chefnuts, and pincs. The height and different combinations of thefe mountains, their towering fummits rifing above one another, and covered with fnow, the many cataracts or falls of water, the noile and rapidity of the river Arc, the froth and green tincture of its water, the echoes of its nurnerous freams tumbling from cliff to cliff, form altogether a very romantic feene. Thefe mountainuus tracts, notwithtanding their height, are not altogethe:free from thunder in fummer, and are ai.fo mach enpo-
fed to thick clouds, which fometimes fettle unexpectedly on them, and continue feveral days. There are fome wolves among the thickets ; and they abound with hares, rupicapras or chamois, and marmottes. In the lower parts of Savoy, there are alfo bears, wild boars, deer, and rabbits; and among the defolate mountains are found great quantities of rock-cryftal. In the glacieres or ice-valleys, between the high mountains, the air is extremely cold, even in the months of July and Auguft. The furface of thefe ice-valleys looks like a fea or lake, which, after being agitated by fierce and contrary winds, has been frozen all at once, interfperfed with hideous cracks and chafms. The noife of thefe cracks, when firlt made by the heat of the noon-day fun, and reverberated by the furrounding rocks and mountains, is aftonilhing. The height of the impending mountains is fuch, that the fun's rays feldom reach the ice valleys, except a few hours in the middle of fummer. The avalanches or fnow-balls, which the leaft concuffion of the air will occafion, tumble down the mountains with amazing rapidity, continually increafing, and carrying all before them. People have been taken out alive, after being buried feveral days under them. The mountainous nature of this ducly renders the plough an ufelefs inftrument of agriculture. The peafants break up the hungry foil with the pickaxe and fpade, and to improve it carry up mould and dung in bafkets. For the purpofe of preferving it from drought in the fpring and fiummer, they cut fmall refervoirs above it, the water of which may be let out at will; and to prevent the earth from giving way, break the declivity of the mountains by building walls on the fide for its fupport, which frequently affume the appearance of ancient fortification, and are a very pleafing deception to travcllers. The Savoyards carry their better fort of cheefe into Piedmont, as the flavour is much efleemed there; but they gain more by their ikins of bears, chamois, and bouquetins (a fpecies of the wild goat), or hy the fale of growfe and pheafants, which they carry in great numbers to Turin.

The chief rivers are the Rhone, which, on the fide of Genera, feparates Savoy from France; the Arve, which has fome particles of gold in its fands; the lfere, the Seran, the Siers, ard the Arc. There are allo a great many lakes in this country, which yield plenty of fifl, but none of them are very large, together with medicinal and reciprocating fprings and hot baths.

The language of the common prople is a corrupt French; but the better fort, and thofe that live in the great cities, fpeak as good French as they do in Paris itfelf.

In their temper, however, and difpofition, the Savoyards refemble the Germans more than the French, retaining fill much of the old German honefty and fimplicity of manners, which no doubt is partly owing to the poverty and barrennefs of the country. To this alfo, joined to their longevity and the fruitfulnefs of their women, which are the effects of their cheerful difpofition, healthy air, activity, temperance, and fobriety, it is owing that great numbers of them are obliged to go abroad in quelt of a livelihnod, which they earn, thofe at leaft who have no trides, by fhowing marmottes, cleaning thoes, fiweeping chimmers, and the like. It is faid, that there are g-nerally about 18,000 of them,
young and old, about Paris. In fummer they lie is the flreets, and in winter, 40,52 , or 63 of them lodge to gether in a room : they are io honefl that they may be trufted to any amount. The children are ofien carried abroad in bafkets before they are able to walk. In many villages of Savoy there is hardiy a man to le feen throughout the year, excepting a month or two. Thole that have families generally fet out and return about the fame feafon, when their wives commonly lie in, and they never fail to bring home feme part of their fmall earnings. Some of them are fuch confummate mafters of economy, that they fet up thops and make furtunes, and others return home with a competency for the relt of their days. An old man is often difpatched with letters, little prefents, and fome money, from the younger fort, to their parents and relations, and brings back with him frefh colonies, letters, meffages, and news. The cultivation of their groui:ds, and the reaping and gathering in of the harveft and vintage, are generaliy left to the women and children; but all this is to be underftood of the mountainous parts of Savoy. Great numbers of the mountaineers of both fexes are faid to be lame and deformed; and they are much fubject to a kind of wens, which grow about their throats, and very much disfigure them, efpecially the women ; but that is the only inconvenience they feel from them.

The nobility of Savov, and the other dominions of the king of Sardinia, labour under great hardhips and reflrictions, unheard of in other countries, which we have not room here to particularize. A minute account of them will be found in Mr Keyfler's Travels. In fhort, the king has left neither liberty, power, nor much property, to any but himfelf and the clergy, whofe overgrown wealth he has alfo greatly curtailed.

No other religion is profeffed or tolerated in Savoy but that of the church of Rome. The decrees, however, of the council of Trent are not admitted; nor ase the churches afylums for malefactors.

This duchy is divided into thofe of Chablais, Genevois, and Savoy Proper, the counties of Tarantaife and Maurienne, and the barony of Faucigny.

SAURIN, 1AMES, a celebrated preacher, was bom at Nilmes in $167 \%$, and was the fon of a proteflant lawyer of confiderable eminence. He applied to his ithities with great fuccefs; but at length being captivated with a military life, be relinquified them for the profeffion of arms. In 169 the made a campaign as a cadet in Lord Galloway's company, and foon afterwards obtained a pair of colours in the regiment of Colonel Renault which ferved in Piedmont. But the duke of Savoy having made peace with France, he returned to Gencra, and refumed the ftudy of philofophy and theology under Turretin and other profeffors. In 1700 he vifited Holland, then came to England, where he remained for feveral years, and married. In 170; he returned to the Hague, where he fixed his refidence, and preached with the moft unbounded applaufe. 'To an exterior appearance highly prepofeffing, he added a frong harmonious voice. The fublime prayer which he recited before his fermon was uttered in a moanner highly affecting. Nor was the attention excited by the prayer difilipated by the fermon: all who heard it were clasmed; and thofe who came with an intention to criticife, were carried along with the preacher and forgot their defign. Saurin had, kowever, orie

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Sturin. fault in his delivery; he did not manage his voice with fulticient thill. He exhautted himielf $f 0$ much in his priyer and the begiming of his ferman, that his voice grew feeble torrards the end of the fervice. His fernons, efpecially thofe publithed during his life, are diftinguilied for juitnefs of thought, force of reatoning, and an eloquent unaffected tityle.

The firt time that the celebrated Abbache lieard him preach, he excluimed, "Is it an angel or a man who fpeaks !" Saurin died on the 3 oth of December 1730, aged 53 years.
He wrote, i. Scrmons, which were publifhed in 12 pols 8 vo and I ano; fome of which difplay great genius and eloquence, and others are compofed with negligence. One may obferse in them the imprecations and the averGion which the Calvinitts of that age were wont to utter aguialt the Roman Catholics. Saurin was, notwithifandins, a lover of toleration: and his fentiments on this fatheet gave great offence to lome of hi, fanatical brethren, who atiempted to obfcure his merit, and embitter his lifc. They found fault with him becaufe he did not call the pope Anticliri?, and the Romifh church the whare of Dcom/lon. But thefe prophetic metaphors, however applicable they may be, were certainly not intended by the benevolent religion of Jefus to be bandied about as terms of reproach; which would teach thofe to rail who ufe them, and irritate, without convincing, thofe to whom they were applied.

Saurin, therefore, while he perhaps interpreted thefe metaphors in the fame way with his oppolers, difcovered more of the moderation of the Chriftian fpirit. Five volumes of his fermons were publifhed in his life, the reft have been added fince his deceafe.
2. Difcourfes Hiftorical, Critical, and Moral, on the moft memorable Events of the Old and New Teltament. This is his greateft and moit valuable work. It was printed firf in two volumes folio. As it was left unfinifhed, Beaufobre and Roques undertook a contimuation of it, and increafed it to four volumes. It is full of learning : it is indeed a collection of the opinions of the beft authors, both Chriltian and Heathen; of the philofophers, hiltorians, and critics, on every fubject which the author examines. 3. The State of Chritianity in France, ${ }^{1725}$, 8vo. In this book he difcuffes many important points of controverfy, and calls in quelion the truth of the miracle faid to be performed on La Foffe at Paris. 4. An Abridgement of Chriftian Theology and Morality, in the furm of a Catechifm, ${ }^{1} 722$, 8vo. He afterwards publifhed an abridgement of this work.

A Difertation which he publifhed on the Expediency of fometimes difguifing the Truth, raifed a multitude of enemies againft him. In this difcourfe his plan was, to flate the arguments of thofe who affirm that, in certain cafes, it is lawful to difguile truth, and the anfwers of thofe who maintain the contrary. He does not determine the queftion, but feems, however, to incline to the firlt opinion. He was immediately attacked by feveral adverfaries, and a lang controverfy enfued; but his dectuincs and opinions were at length publicly approved of by the fynods of Campen and of the Hague.

The fubjeet of this controverfy has long been agitated, and men of equally good principles have fupported oppofite files. It would certainly be a dangerous maxim
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that falfehood can ever be lawful. There miy, indeed, be particular cates, when the motives to it are of fuch a nature .. to dirninith its criminality in a high degree; but to leffen its guilt is a very drfferent thing from juftifying it by the lavs of morality.
S.Mirin, Jofeph, a geometrician of the acatemy of Sciences at Paris, was bonn at Courtoufon in the principality of Orange, in 1659. His father, who was a minitter at Grenoble, was his firtt preceptor. He made rapid progrefs in his fludies, and was admitted minifter of Eure in Dauphiny when very young: but having made ufc of fome violent expreffions in one of his fermons, he was obliged to quit France in 1683 . He retired to Geneva, and thence to Berne, where he obtained a confiderable living. He was fcarcely fettled in his nev: habitation, when fome theologians raifed a perfecution againft him. Saurin, hating controvery, and difgufted with Switzerland, where his talents were entircly conccaled, repaired to Holland. He returned foon after to France, and furrendered himfelf into the hands of Bofluet bifhop of Meaux, who obliged him to make a recantation of his errors. This event took place im 1690. His enemies, however, fufpected lis fincerity in the abjuration which he had made. It was a general opinion, that the defire of cultivating fcience in the capital of France had a greater effcet in producing this change than religion. Saurin, however, fpeaks of the reformers with great afperity, and condemns them for going too far. "Deceived in my opinions concerning the rigid fyltem of Calvin, I no longer regarded that reformer in any other light but as one of thofe extravagant geniufes who are carried beyond the bounds of truth. Such appeared to me in general the founders of the reformation; and that juft idea which I have now obtained of their character has enabled me to fhake off a load of prejudices. I faw in moft of the articles which have feparated them from us, fuch as the invocation of faints, the worfhip of images, the dilinction of meats, \&c. that they had much exaggerated the inevitable abufes of the people, and iniputed thefe to the Romilh church, as if fanctioned $t_{y}$ its doctrines. Befides, that they have mifreprefented thofe doetrines which were not connected with any abnie. Ore thing which furprifed me much when my eyes began to open, was the falfe idea, though in appearance full of refpect, for the word of God, which the reformers entertained of the perfection and perlpicuity of the Holy Scriptures, and the manifelt mifinterpretation of paffages which they bring to fupport that idea (for that mifinterpretation is a paint which can be proved). Two or three articles ftill raifed fome objctions in my mind againft the Romifh clurch; wo wit, Tranfubftantiation, the adoration of the facrament, and the infallitility of the church. The adoration of the facrament I confidered as idolatry, and, on that account, removed from her communion. But foon after, the Expofition of the bilhop of Meaux, a work which can never be fufficiently admired, and his Treatife coricerning changes, reverfed all my opinions, and rendered me an cremy to the Reformation." It is faid alfo, that S umin, appeafrd his confcience by reading Poirct's Cogivationes rationales. This book is written with a vew to vindicate the church of Rome frum the charge of idolatry.

If it was the love of diffinction that induced Saurin to

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peturn to the Romith church, he was not difappointed; for he there met with protection and fupport. He was favourably received by Louis XIV. obtained a penfion from him, and was treated by the $\Lambda$ cademy of Sciences with the moit tlattering refpect. At that time (1717), geometry formed his principal occupation. He adoined the Journal des Scavans with many excellent treatifes; and he added to the memoirs of the Academy many interelling papers. Thefe are the only works which he has left belind him. He died at Paris on the 29th December 1737 , in his 78 th year, of a fever. He married a wife of the family of Croufas in Switzerland, who bore him a fon, Bernard Joleph, diftinguifted as a writer for the theatre.

Saurin was of a bold and impetuous fpirit. He had that lofty deportment which is generally mittaken for pride. His philofophy was autiete; his opinions of men were not very favourable; and he often delivered them in their prefence: this created him many enemies. His memory was attacked after his deceale. A letter was printed in the Mercure Suiffe, faid to be written by Saurin from Paris, in which he acknowledges that he had committed feveral crimes which deferved death. Some Calvinift minifters publifhed in 1757 two or three pamphlets to prove the authenticity of that letter; but Voltaire made diligent enquiry not only at the place where Saurin had been difcharging the facerdotal office, but at the deans of the clergy of that department. They all exclaimed againit an imputation fo opprobrious. It muft not, however, be concealed, that Voltaire, in the defence which he has publifhed in his general hiftory of Saurin's conduct, leaves fome unfavourable impreffions upon the reader's mind. He infinuates, that Saurin facrificed his religion to his intereft; that he played upon Boffuet, who believed he had converted a clergyman, when he had only given a little fortune to a philofopher.

SAURURUS, a genus of plants belonging to the heptandria clafs; and in the natural method ranking under the fecond order, Piperito. See Botany Index.

SAUSSURE, Horace Bfnfdict de, a celebrated naturalif, was a native of Geneva, and born in 1740. His father was an intelligent farmer, who lived at Conches, about half a league from Geneva, which no doubt contributed, in addition to his active education, to increafe the phyfical ftrength of young Sauflure, fo requifite for a naturalift who intends to travel. He went daily to town for public inftruction; and as he lived at the foot of a mountain, he frequently amufed himfelf in afcending its fteep and rugged fides. Thus environed by the phenomena of nature, and affifted by fludy, it was to be expected that he would foon conceive a predilection for natural liftory. Botany was his moft early and favourite fludy, a tafte which was powerfully encouraged by his local fituation, and was the means of introducing him to the acquaintance of the great Haller, to whom he paid a vifit in 1764, and was aftonifhed at his intimate acquaintance with every branch of the natural fciences.

His attachment to the fudy of the vegetable kingfom was alfo increafed by his connection with Bonnet, who had married his aunt, and who put a proper eftismate on the talents of his nephew. He was at that time engaged in the examination of the leaves of plants, to which Sauflure was alfo induced to turn his attention,
and publifhed the refult of his refearches under the titic Sauffue of Obfervations on the Bark of Leaves. About this time the philofophical chair at Geneva became vacant, and was given to Sauflure at the age of 21 . Rewards conferred fo early have been thought to extinguifh in fume a zeal for the increafe of knowledge, but this was not the cafe with de Sauffure, who taught phyfics and logic alternately with equal fuccefs. For phyfics, however, he had the greateft tafte, as affording the means of profecuting the ftudy of chemiltry, mineralogy, and other kindred fciences.

He now began his travels through the mountains, not for the purpole of fudying, as formerly, their flowery decorations, but their conftituent parts, and the difpofition of their maffes. During the firft fifteen years of his profefforfhip, he was alternately engaged in difcharging the duties of his office, and in traverfing the mountains in the vicinity of Geneva; and in this period his talents as a great philofopher were fully difplayed. He extended his refearches on one fide to the banks of the Rhine, and on the other to the country of Piedmont. He travelled to Auvergne to examine the extinguithed volcanoes, going afterward to Paris, England, Holland, Italy and Sicily. It is proper to remark that thefe were not mere journeys, but were undertaken purely with the view of fudying nature; and in all his journeys he was furrounded with fuch inffruments as would be of fervice to him ; together with plans of his procedure previoufly drawn up. Readily will our readers believe this great philofopher when he afferts, that he found fuch a method extremely beneficial.

The firt volume of his travels through the Alps was publifhed in 1779, which contains a circumftantial defcription of the environs of Geneva, and an excurfion as far as Chamouni, a village at the foot of Mont-Blanc. It contains a defcription of his magnetometer, with which philofophers will probably be delighted. In proportion as he examined mountains, the more was he perfuaded of the importance of mineralogy ; and that he might fludy it with advantage, he acquired a knowledge of the German language. In the laft volumes of his travels, the reader will fee how much new mineralogical knowledge he had acquired.

During the troubles which agitated Geneva in 1782, he made his beautiful and interefting experiments on hygrometry, which he publifhed in 1783 . This has been pronounced the beft work that ever came from his pen, and completely eftablifhed his reputation as a philofopher. De Sauflure refigned his chair to his pupil and fellow labourer, Pictet, who difcharged the duties of his office with reputation, although rendered difficult to him by fucceeding fo great a man. He projected a plan of reform in the education of Geneva, the defign of which was, to make young people acquainted with the natural fciences and mathematics at an early period, and wifhed that their phyfical education fhould not be neglected, for which purpofe he propofed gymnaftic exercifes. This plan found admirers in the city, but the poverty of its funds was an obftacle in the way of any important innovation. It was dreaded too, that if eftablifhed forms were changed, they might be altered for the worfe.

The attention of De Sauflure was not wholly confined to public educatios, for he fuperintended the edncation of his own two fons and a daughter, who have

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Saunure fince mroved themielves worthy of tich a father and 7
Sauv ur.
precepior. In 1786 , he publithed his fecond volume of traicls, contanimge a deferi tion of the $N 1$ ps around TH sut-Blase, the whode a vidy been cxamis. I with the c. of a mi eralogis ${ }^{2}$, gevios ${ }^{1}$ t, and pailolopher. It if h. ins fume ralaale experiments on electrifity, and a der ripiun of his own ele ?romeier, faid to be thee msit per.ect we base. T'o him we are indeb.ed for a cy/anommel, for meafuriag the degree of bluenefo of the heavens, "lith is found to vary a ording to the l eight of the obferver: lis ciantanometer for meafurin:s the traspareney of the atmo plere; ald his ant ramoter fral ertai in $g$ the force of the winds. He frunded the Society of Arts, to the operations of which G.neva is indebted for the fate of profperity it has re:ched withis the laft 30 years. Over that fociety he procided to the day of his death, and the peecrvation of it in profperity conllituted one of his fondelt withes.

In 1794, the health of this eminent man began rapidly to decline, and a fevere ftroke of the pally almolt deprived him totally of the ufe of his limbs. Such a condition was no doubt painful to fuch a man; but his intellects ftill preferved their original aftivity, and he prepared fur the prefs the two laft volumes of his travels, which appeared in 1796 . They contain a great mals of ne:v facts and o fervations of the lalt importance to phyfical fcience. During his illnels he publithed Obfirvations on the Fufibitity of Sones by means of the Bow pip: He was in general a Neptunian, alcribing the revolutions of our globe to water, and admitting the poflibility of mountains having been thrown up by elaftic lixids difengaged from the cavities of the earth. In the midtt of his rapid decline he cherifhed the hopes of recovery; but his ftrength was exhaufted ; a languor fucceedal the vigour which he had formerly enjoyed; his flo:v pronuaciation did not correfpord with the vivaci $y$ of his min $J$, and was a melancholy contralt to the p'ealat:ae's which he had formerly exhibited. He tried in vain to procure thee re-eftablihment of his health, for all the remedies prefcribed by the ableft phyficians were wholy ineffectual. His mind afterwards loit its activity, and on the 22d of March 1799, the finifhed his mort 1 career, in the 59 th year of his age, lamented by a family to whem he was denr, by a country to which he had done honour, - and by Europe, the knowledge of which he had extended.

SAUVAGESIA, a genus of plants belorging to the pentandria clafs; and in the natural method ranking with th-fe of which the order is doubtful. See BoTANy Index.

SAUVEUR, JOSEPH, an eminent French mathe. matician, born at La Fleche in 1653 . He was abfoI itcly dumb until he was feven years of age; and even then his organs of fpeech were noi evolved fo fully as to permit him to fpeak withou: great deliberation. Mathematies were the only ftudies he had any relifh for, and thefe he cultivated with extraordinary fuccefs; fis that he commenced tencher at 20 years of age, and was fo foon in reggue, that he had Prince Eogene for his fholar. He became mathematical profffior in the royal college in 1686 ; and ten years afier was admitted a member of the Acadomy of Siences. He died in 1716 ; and his writir; , which conlift rather of detached papers than of connceted treatifes, are all inferted in the Mcmoirs of the Aeademy of Sciences. ToL. YVilII. Part II.

He was twice maried; and by the latt sife had a lon, who, like himfelf, was dumb for the firlt feven years of his life.

Sauv ut S.IV, an inhrument which ferves to cut into pices feveral folid ma':cs; as wood, it ne, ivory, \&ec.
'The b it ${ }^{\prime \prime}{ }^{\prime}$ s aie of tempered iteel giound br', hl an I im : $:$ a t of iron are ouly hammer hardened hence the $l: \ldots$, beides their being Illiker, are likewife found anoother than the latt. They are anown to be well l mon red by the titil bonding of the blade; and to be weil atd evenly ground, by their bending equally in a bow.

The lapidaries, too, have their fuw, as weil as the workmen in mofaic; but of all meclanics, none have fo many faws as the joiners, the clief of which are the following. The pit-faw, which is a large two handed fan, employed for fawing timber in pits, and chifly uled by the fawers. The whip-law, winch has likewiltwo handles, ufed in fawing fach large pieces as the hand fow will not eafily reach. The hand faw is made to be ufed by an individual, of which there are different kinde, as the frame faw, which is furnihed with cheeks. By the twitted cords which pafs from the upper parts of there cheeks, and the tongue in the middle of them, the upper ends are drawn cloler together, and the lower ict further afunder. The tenon-faw, which being very thin, has a back to keep it' from bending. 'The compals fass, which is very fmall, and its teeth witally not let; its ufe is to cut a round, or any other compalskerf, on which account the edge is made broad, and the back thin, that it may have a compats to turn in.

At an early pesicd, the tuanks of trees were fylit with wedges into as many and as thin pieces as pofible ; and if it were neceffiry to have them fill thinner, they were hewn o: both fides to the proper fize. This fimple and wattefnl mariner of ma..king boards h. s been fill! continued in fome places to the prelent day. Peter the Great of Ruffia endeavoured to put a fop to it, by forbidding hewn deals to be tranported on the river Neva. The liw, howev-, though fo convenient and beneficial, has not been able to bauih entirely the practice of folitting timber ufed in building, or in making funnture and utenfils; for we do not \{peak here of firewood; and indeed it muit be allowed that this method is attended with pecuiliar advantages which that of farsing can never puffeis. The woud-1plitters perform their work more expeditioully than fawers, and fplit timber is much flronger than that which has been dawn; for the fifiure follows the grain of the wood, and leaves it whie; whereas the farw, which proceeds in the line chalked out for it, divides the fibres, and by thefe meanis leffens its cohefion and folidity. Split timber, indeed, turns out often crooked and warped; but for many purpoles to which it is applied this is not injurious, and thefe faul's may fornetimes be amended. As the fibsec, however, retain their natural length and direction, thin boards parlicularly, cau be bent much better. 'This is a gicat advantnge it making pipe faves, or liese frames, which requie ftill noore art, and in tormin, verius in plements of a flmilar kind.

Our commen fav, which requires only to be guided by the h.. ', howe er limple it may be, was not known to the inhat itiants of America when they were "ubd ied by the Europeans. The inventor ol this initu neat has b.en inferted in th.ir mytholney by the Greeks, with a

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piace, in which, among their gods, they honoured the greatell benefactors of the earlieft ages. By lome he is called Talus, and by others Perdix. None except Pliny make Dædalus the inventor; but Hardouir, in the paflage where this occurs, reads Talus for Dredalus. 1 .his is the name of the inventor according to Diodoras Siculus, Apollodorus, and others. He was the fon or Daedalus's finter, and was by his mother placed under the tuition of her brother, to be infruted in his art. Having found the jaw-bone of a frake, he employed it to cut thirough a finall piece of wood; and by thefe means was induced to fabricate a fimilar initrument of iron, that is, to make a faw. This invention, by which labour is greatly facilitated, excited the envy of his mafler, and prompted him to put Talus privately to death. Being afked, when burying the body, what he was depofiting in the earth, he replied, a ferpent. This ambigueus anfwer difcovered the murder; and thus a fnake was the caule of the incention, of the murder, and of its being brough: to light. By others the inventor is called Perlis, who is fuppofed to have been the fon of a filter of Dedalus. Perdix did not employ the jawbone of a finake for a faw, but the back-bone of a filh, as is mentioned by Ovid.

The farss of the Grecian carpenters had the fame form, and were made with equal ingenuity as the fame inftruments at prefent. This appears from a painting pieferved among the antiquitics of Herculaneum. Two geniii are reprefented at the end of a bench, confilting of a long table refting on two four-footed flools; and the piece of wood to be farm through is fecured by cramps. The faw with which the genii are at work bears a ftriking refemblance to our frame-faw. It confilts of a fquarc frame, having a blade in the middle, the teeth of which are perpendicular to the plane of the frame. The piece of wood to be fawn extends beyond the end of the bench, and one of the workmen appears ftanding, and the other fitting on the ground. The arms in which the blade is faftened, have the fame form as that given to them at prefent. In the bench are feen holes, in which the cramps holding the timber are fluck. They are fhaped like the figure 7 ; and the ends of them reach below the boards which form the tep of it.

Satrifith. See Pristis, Icuthyology Index.
S.tw: Ahills. The moft beneficial improvement of the operation of fawing was the invention of faw-mills, which are driven either by water or by wind. Mills of the firlt kind were crected fo early as the fourth century, in Germany, on the fimall river Ruer. The art of cutting marble with a fow is very ancient. According to Pliny, it was invented in Caria. Stones of the foapsock kind, which are fofter than marble, were fawn at that period; but it appears that the harder kinds of fone were alfo then fawn; for we are informed refpecting the difoovery of a building which was encrufted with cut agate, carnelian, lapis lazuli, and amethylls. There is, bowetcr, no account in any of the Greek or Zoman writers of a mill for fawing wood; and as modern authors fpe $k$ of faw-mills as ners and uncommon, it appears that the oideft conftruetion of them has been forgotten, or that fome interefting improvement has made then afpear eatirely new.

Becher lays that faw-mills were invented in the $17^{\text {th }}$ sentury, which is a mittake; for when the infant Henry
fent people to fettle in the ifland of Madeira, difcovered Sa:m-mills, in 1420 , he gave orders for law-mills to be erected, for the purpofe or fawi.ng into deals the various fetcies of excellent timber with which the illand abounded, and which were aterwards exported to Portugal. There was a faw mill in the city of B.ellum about the year 1427, producing a yearly rent of three merks; and in 1.990, the magnitrates of Erfurt purchaled a foreft, in which they erected a faw mill, beiides renting another ia the neighbourhood. The bint faw-mill in Norway was erected about the year 1530 . In the year 1552 there was a faw-mill erected at Joachimflhal, the property of a matnematician called Jacos Geufen. In 1555 , the bilhop of Ely, ambalfador from Queen Mary of England to the court of Rome, having ieen a faw-mill in the vicinity of Lyons, the writer of his travels gave a particular defoription of it. The firt far mill was erected in Holland at Saardam in 1596, the invention of which is afcribed to Cornelius Corncliffen.

The firit mill of this kind in Sireden was erected in the year 1653 . At prefent, that kingdom poffefies the largeit perhaps ever conitructed in Europe, where a water-wheel, 12 feet broad, drives at the fame time 72 faws.

In England, faw-mills had at firft a fimilar fate with printing in Turkey, the ribbon-loom in the dominions of the church, and the crane at Straiburg. When attempts were made to introduce them, they were violently oppofed, becaufe it was apprehended that the fawers would thus be deprived of the means of procuring fubfitence. Å opulent merchant in 1767 or 1768 , by defire of the Society of Arts, caufed a faw-mill to be erected at Limehoufe, driven by wind; but it was demolifhed by the mob, and the damage was futlained by the nation, while fome of the rioters were punifhed. This, however, was not the only mill of the kind then ia Britain; for at Leith there was one driven by wind, fome years before.

Saw-mills are very common in America, where the moving power is generally water. Some have been conftructed on a very extenfive plan; one in particular, we have been informed, has been erected in the province of New Brunfuick, in Britifh America, for the purpole of cutting planks for the Englith market. This machine works 15 faws in one frame, and is capable, it is faid, of cutting annually not fewer than $8, \cos , 200$ feet of timber.

The mechanifm of a fawing mill may be reduced to three principal things; the firt, that the faw is drawn up and down as long as is neceflary, by a motion communicated to the wheel by water; the fecond, that the piece of timber to be cut into boards is advanced by an uniform motion to receive the ftrokes of the faw; for here the wood is to meet the fiw, and not the fasv to follow the wood, therefore the motion of the wood and that of the faw ought immediately to depend the one on the other : the third, that where the faw has cut through the whole length of the piece, the whole machine flons of itfelf, and remains immoveable; left having no obitacle to furmount, the moving power fhould turn the whell with too great velocity, and break lome part of the machine.

Saw mills have been diftinguifhed into two kinds, viz. thofe which have a reciprocating and thofe which have a rotatory motion,

Fig. 1 .

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Fig. r. repreforts the elevation of a reciprocating faw-mill. AA is the lhatt or axle, upon which is fixed the wheel BB ( of $17 \frac{1}{2}$ or : $^{3}$ feet diameter), containing
Fiate eccelate. Fig. 1.
faws, by means of a rotatory motion, either by the ufe Saw-mm. of cranks, \&ec, or in fome fuch way as the following. Let the horizontal wheel ABDC (6g. 2.) drive the pi-1if. z. nion $O p N$, this latter carrying a vertical pial $D$, at the dillance of about one-thind of the diameter foom the centre. This pinion and pin are reprefented feparately in fig. 3. Let the frame WSTV, carrying four faws, Fig 3 maiked $1,2,3,4$, have wheels $V, \mathbf{T}, W, W$, each running in a groove or rut, whofe diredtion is parallel to the propofed direction of the faws: and let a tranfverfe groove PR , whure length is double the ditance of the pin P from the centre of the pinion, be cut in the faw frame to receive that pir. Then, as the greai wheel revolves, it dives the pinion, and carrics round the pin P : and this pia, being compelled to flide in the flraight groove l'lk, while by the rotation of the pinion on which it is fixed iis dillance from the great wheel is conitantly varying, it caufes the whole faw frame to appusach to and recede from the great whecl alternately, while tise grooves in which the wheels run confine the frame fo as to move in the direction $\mathrm{T} / \mathrm{t}, \mathrm{V}$. Other blocks of itone may be fawn at the fame time ty the motion of the great wheel, if cther pinions and frames ramning of in the directions of the refpective radii $E B$, E.1, EC, be worked by the teeth at the quadrantal points B, $A$, ard C. And the contuary efforts of thefe four frames and pinions will tend to loften down the jolts, and equaiize the whole mution.

The fame contrivance, of a pin fixed at a fuitable ditance from the cent:e of a wheel, and fliding in a groove, may ferve to convert a reciprocating into a totatory motion : but it will not be preferable to the coanmon converfion by means of a crank.

When faws are ufed to cut bloks ce fone into pieces having cylindrical furfaces, a limall addition is made to the apprates. See figs 4 and 5. The faw, inftead of tig 4. \& 3 . being allowed to fall in a vertical groove as it cuts the block, is attached to a lever or bean FG, futticiently frong; this lever has feveral hules pierced through it, and fo bas the vertical piece ED, which is lilicuife moveable tonards either fide of the frame in grooves in the top and bottom pieces AL, DM. Thus, the length KG of the radius can be varied at pleafure, to fuit the curvature of NO ; and as the faw is moved to and fro by proper machinery, in the direction $\mathrm{CB}, \mathrm{BC}$, it works lower and lower into the block, while, being confined by the beam FG, it cuts the cylindrical portion from the block $P$, as required.

When a completely cylindrical pillar is to be cut out of one bloch of ttone, the firll thing will be to afcert ain in the block the pofition of the axis of the cylinder : then lay the block fo that fuch axis fhall be parallel to the borizon, and let a cylindrical hole of from one to two inches diameter be bored entirely through it. Let an iron bar, whole diameter is rather lefs than that of this tuhe, be put through it, having jull room to flide frcely to and fro as occafion may require. Each end of this bar fhould terminste in a fcrew, on which a nut and frame may be faftened: the nut frame lhould carry three flat pieces of wood or iron, each having a flit running along its middle nearly from one end to the other, and a kiew and handle muft be adapted to each flit: by the?e means the frame-work at each end of the bar may readily be fo adjufted as to form cqual ifofceles or equilateral triangles; the iron bar wil! conneet two cor-

## S $A$ W

$\underbrace{\text { S.0. mill }}$ refponding angles of thefe triangles, the law to be ufed two other correfponäng angles, and another bar of iron or of wood the two remaining angles, to give fufficient ftrength to the whole frame. This conftruction, it is cobvious, will enable the workmen to place the faw at any propofed diltance from the hole drilled through the middle of the block; and then, by giving the alternating motion to the faw frame, the cylinder may at length be cut from the block, as required.

If it were propofed to faw a conic fruftum from fuch a block, then let two frames of wood or iron be fixed to thofe parallel ends of the block which are intended to coincide with the bafes of the frultum, circular grooves being previoufly cut in thefe frames to correfpond with the circumferences of the two ends of the propofed fruftum ; the faw being worked in thefe grooves will manifeftly cut the conic furface from the block. This, we believe, is the contrivance of Sir George Wright.

The beft method of drilling the hole through the middie of the propofed cylinder feems to be this : on a carriage rumning upon four low wheels let two vertical pieces (each having a hole juft large enough to admit the borer to play freely) be fixed two or three feet afunder, and fo contrived that the pieces and holes to receive the borer may, by fcrews, \&c. be raifed or lowered at 1heafure, while the borer is prevented from fliding to Trd fro by floulders upon its bar, which are larger than teh-les in the vertical pieces, and which, as the borer revolves, prefs again.ft tliofe pieces: let a part of the 1 horim bar between the two vertical pieces be fquare, ..nd a grooved wheel with a fquare hole of a fuitable lise be placed upon this part of the bar; then the rowh:ory motion may be given to the bar by an endlefs and which fiall pals over this grooved wheel and a wlecl of a much larger diameter in the fame plane, the later wheel beigg turned by a winch handle in the ufual way. See boring of ORDNANCE.

Circular faws, acting hy a su talcy motion, have been 10.g known in H 1 land, where they are ufed for cutting veod ufd in veneeriag. They were introduced into Tis com, ry, we beliere, by Generel Bentham, and wre no: wfed in the dock yard at Porffouth, and in a the other places: but they are not, as yet, fo gencrally *Jopted es might be rifled, confidering how well they are cal ulated to abridge labour, and to accomplihh with expelition and accurcy what is very tedious and isk me to perform in the ufual way. Circular faws moy be made to turn either in horizontal, vertical, or inclined planes; and the timber to be cut may be laid apon a plane juclined in any direction; fo that it may be fawn by lines making any angle whatever, or at any prop fed dillance from ench otler. When the fav is fixed at a certain angle, and at a certain difatice from the efre of the frame, all the pieces will be cut of the fame fize, without mirking upon them by a chalked 1:ie, merely by caufing them to be moved nlony and keeping one fide in contact with the fide of the frame; for thes, as t? cy are brourgh one by one to totch the faw rex ing o its axte, and are prefied upon: it, they ale foon c it thre: h .

Mr Smart, of Ordnance w? arf, We eqminfor ' ridge, has fever 1 circular faws, all worked by a lonfe in a mowrite fad wall: :.... of tive, intudid or cutiong ar 4 horing terms ! 4 is nent man's holl mans,

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under which is part of the wheel-work of the honfe-mill. Sarr-mill $-1, ~ B, ~ D, ~ C, ~ E, ~ F, ~ a r e ~ p u l l e y s, ~ o v e r ~ w h i c h ~ p a f s ~ f t r a p s ~$ or endlefs bands, the patts of which out of fight run upon the rim of a large vertical wheel : by means of this fimple apparatus, the faws $\mathrm{S}, \mathrm{S}^{\prime}$, are made to revolve upon their axles with an equal velocity, the fame band pafing round the pulleys $D, C$, upon thofe axles; and the rotatory motion is given to the borer $G$ by the band paffing over the pulley A. The board I is inclined to the borizon in an angle of about 30 degrees; the plane of the faw $S^{\prime}$ is parallel to that of the board I, and abont a quarter of an inch diflant from it, while the plane of the faw $S$ is vertical, and its lowelt point at the fame diflance from the board I. Each piece of wood K out of which the tenon is to be cut is four inches long, an inch and a quarter broad, and 5 -eighths of an inch thick. One end of fuch piece is laid to as to flide along the ledge at the lower part of the board I ; and as it is puftied on, by means of the handle H , it is firf cut by the faw $\mathrm{S}^{\prime}$, and immediately after by the faw S: after this the other end is put loweft, and the piece is again cut by both faws: then the tenon is applied to the borer G , and as foon as a hole is pierced through it, it is dropped into the box bencath. By this procefs, at leaft 30 tenons may be completed in a minute, with greater accuracy than a man colld make one in a quarter of an hour, with a common hand. faw and gimblet. The like kind of contrivance may, by flight altcrations, be fitted for many other purpoles, particularly all fuch as may require the fpeedy fawing of agreat number of pieccs into exactly the fame fize and thape. Gregory's Meclianics, II.

SAXE, MLuURIGE COUNT of, was born the 13 th October 1696 . He was the natural fon of Frederic Auguftus II. elcetor of S sony, and king of Poland, and of the countefs of Konigfmerc, a Swedifh lady, celebrated both for her wit and heauty. He was educated along with Frederic Augufus the electoral prince, afterwards king of Poland. His infancy announced the future warsior. Nothing could prevail on him to apply to his fudies but the promife of being allowed, after he had finithed his tafk, to mount on horfeback, or exercife himfelf with arms.

He ferved his firlt campaign in the army commanded by Prince Eugcne and the duke of Marlborough, when only twelve years old. He fignalized himfelf at the freges of Tournay and Mons, and particularly at the battle of Malplaquet. In the evering of that memorable day, he was heard to fay, " l'm content with my day's work." During the campaign of 1710 , Prince Fugene and the duke of Marlhorough made many Fublic encomiums on his mosit. Next year the young count accompanied the king of Poland to the fiege of Stralfund, the frongen place in Pomerania, and difplayed the greatelt intrepidity. He fwam aciofs the river in fiblt of the enemy, with a piltol in his hand. His valour fhone no lefs confpicuoufly on the bloody day of Gaedelbufck, where lie commanded a regiment of cavilry. He had a horfe killed under him, after he had three time: rallied his regiment, and led them on to the cl rge.

So n afier tlat campaign, lis mother preve led on him to merry the courtefs of Luhin, a hady both rich fild beaut ful. This enien liffat but a h.ort time. In $17^{21}$, ti: coist procure a d.viluatin of the maniage;

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\end{array}\right] \quad \text { S A X }
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Saxe. a hep of which he afterwards repented. The countefs left him with regret; but this did not prevent her from marrying foon alter. The count of Saxe was too fond of pleafure and variety to fubmit to the duties which marriage impoles. In the midft, however, of the plcafures in which he fometimes indulged, he never loft fight of his profefion. He carried along with him wherever he twent a library of military liooks; and even when he feemed molt taken up with his pleafures, he never failed to fpend an hour or two in private ftudy.

In 1717 he went to Hungary, where the emperor had an army of 15,000 men under the command of Prince Eugene. Young Count Saxe was prefent at the frege of Belgrade, and at a battle which the prince gained over the Turks. On his return to Poland in 1718, he was made a knight of the golden eagle.

The wars in Lurope being concluded by the treaties of Utrecht and Paffarowitz, Count Saxe went to France. He had always profefled a partiality for that country. French, indeed, was the only foreign language which during his infancy he was willing to learn. He fent bis whole time during the pace in fudying mathematics, fortificution, and mechanics, Fciences which exactly fuited lis genius: The mode of exerciing troops had firuck his attention when very young. At 16 he invented a new exercife, which was tal.itt in Saxay with the greateft fuccels, Haring obtaived a regiment in France in 1722, he formed it himfeli according to his new plan. From that moment the Chezalre. Fstard, an excellent judge of miliary talents, prewited that be would be a great man.

In 1726 the ftates of C urland chofe him for their fovereign. But both Poland and Ruflia roie in arms to oppofe him. The Czarina wifled to befow the duchy on Mer zikoff, a happy adventurer, who fiom a pai ry-cook's boy became a general and a prince. Menzihof lent 80 Ruflians to Nilan, where they be:eged the new-chofen duke in his palace. Count Sase, who had orly 60 men, defe ided him'elf with a'tonill ing irtrepidity. The cge was rifed, and the R.flians ol ilgod to retreat. Suon after he retired to Ufmsiz, and prepared to defend his people againft the two ho ile nations. Here he remained with only 300 m n, till the Rufian general aymouched at the head of $y>=0$ to force his retres: That genoral inwited the count to a conference, during which he inten. Jed to farpuife him, and take him fri n.r. The cout, in mind of the plot, reproached bim for his balene-fo, and brote up the conference. About this time he wrote to 1 rance far men and money. Mademo!? elle le Couve $r$, a fanm is aetrefs, pawned her jewels and phit, and fent lim thes firm of 40.020 livres. This actrefs hod formed is mi 1 $f$ th fine arts. She had made him read the greater part of the French iocis, and given him or tife f the theatre, which he ret incd ev $n$ in the a.7. I c

 minions, and $i$ itre into France. It i in a Alme Iwnow, dacee dowlee ot $\mathrm{C} s+1$ nd, ant ie ind
 1 fos of marri ee; ant aborennel him at that tine


throne of Ruflin ulfeli, which that princefs afterxards flled.

Count Sase, thus fript of his territories, devot d himelf for fome time to the fludy of mathematics. Hc compofed alfo, in 13 ni hts, and during the intervals of an ague, his Reveries, which he corrected afierwards. This book is writen in an incorrect but forcible flyle; it is full of remalks both new and profound, and is c flu lly ufoful to te foldier and the general.

The death of the king of Poland his father, in ${ }^{1} 733$, ki:dled a new war in Europe. His brather, the elector of Saxany, offered him the command of all his forcec, but he preferred the Fiench fervice, and repaired to the marechal of Berwich's army, which was encamped on the Rhine. "Court," faid that general, who was preparing to attack tir enemy"s entrenchments at Etlinghen, "I was givi.g to fer d for 3050 men, but your arrival is of more value than theirs." When the atack began, the count, at the liead of a regiment of grenadiers, forced the enemy's lines, and by his bravery decided the victory. He behaved at the fiege of PhilipfLurgh with no lefs intrepility. For theie fervices he was, in 1734, rewarded with the rank of lieutenantgeneral. Peace was co cluded in 1736 ; but the death of Charles TII. emperor of Gernany kindled a new war almoft immediately.

Prague was bei-ged by the cou.t of S:ve in 1 1hti, near the end of Nowember, and taken the fome math hy affault. The conquelt of Egra followed that of Prague. It was taken a feiw days after the trenches were olered. This fuccefs gave fo much y to the emperor Cinar'ss Till. that he wrote a co gratulatory letter to the cenpueror wi,h his own hand:

In $17+4$ he was made na.rechal of France, and commanded a part of the French army in Flanders. During that compaign he dif layed the greateft nilitary condich. Thous the enemy was tiputior in number, i.e obferved their motions fo ©ilfully that they could do nothing.
In January ${ }_{1}{ }^{\circ}+5$, an alliance wa: concluded at War$f$ via between the queen of Hurgary, the king of England, and the States of Holland. The ambalition of the Siates General, meeting Marechal Sase owe day at \erfailles, afked his opinion of that trea r. " I th lik (2ys he), th t if he king my mafter wot d give me an uilimited commaffin, I would re:d the orf inat at the H. ue befure the end of the year." This at fiver was not : Liavado ; the marechal was capoble of ferItaing it.
lie wemt $f$ on afier, though excecdi. gly ill, to tahe the c:orn of french army in the 1 ov C untrice. A g il yan foring the feebl. oforition in wh ich lef.ft Pasis, aled liam how he conid in that fitiatimantertzise to great an enterprite. ". The quention Dreplied hee) is n't about living, but fetting out."y, ratier tic opeting of the ceninien, the latite of :onicn wor fuplit. Mise hal Suxc was at the puiat of cevth, yet he c ufd him If to be put i. 1. a . Her, a donied pulal all te puts. During the action he , oted on I Ck, if ou h he was fo wery we k
 ifr. 'The lie ry of Fonltor, win ereriel in his if it ce ? I c i.cily, ofe foll what t or I 9mb


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Sare. and Bruffels: This laft cily was taken on the 28 h Fe bruary 1746; and very foon atter the king fent to the narechal a letter of nateralization conceivedin the moll flattering terms. The fuccecting campaigns gained Lim additional honou=s. Affer the viftory of laucosx, which he gained on the 11 th Ofober 1746 , the king of Fratice made him a prefent of fix pieces of cannon. He wac, on the 12 h of danuary of the following year, created marcchai of all the French armie', and, in $174^{8}$, commander-general of a!l thofe parts of the Netherlands whic: were lately conquered.

Holland now began to tremble for her fafety. Maefricht and Bergen-oj Zoom had already fallen, and nothing but misfortunes feemed to attend the further profecution of the war. The States Genere!, therefore, offered terms of peace, which were azcepied, and a treaty concluded on the 18 th October $1 ;+9$.

Marechal Snxe retired to Chambord, a country feat which the king of F:ance had given him. Some time afler hie went to Berlin, where the kilg of Pruflia receivel him as Aix..nder would heve recsived C arar. On his zatura to France, he lipent his time among men of leanning, artitts, and philofophers. He died of a fcrer, on the zoth November 1750, at the age of 54 .

Some day, before his death, talking to M. Senac his phyfician about his life, "It has been (fays he) an excellent dream." He was remarkably careful of the lives of his men. One day a general officer was pointing out to him a polt which would have been of great ufe. "It with only colt you (flays he) a duzen grenadiers. " That wouid do very well," replied the marechal, " were it only a dozen lieutenant-generals."

It was impollible for Marechal Saxe, the natural brother of the king of Poland, elected fovereign of Courland, and pofiefled of a vigorous and refle's imagination, to be deffitute of ambition. He conftantly entertained the notion that he would be a king. After lofing the crown of Rufia by his inconitancy in love. bee formed, it is faid, the project of aflembling the Jews, and of being the fovereign of a nation which for 1720 years had neither puffiled chief nor country. When thes chimerical idea could not te realized, he caft his cyes upon the kingdem of Corlica. After failing in this project alfo, lie was bufly employed in plaming a fettlement in fome part of America, particularly Brazil, when death furprifed him .

He had been eapcated and died in the Lutheran religion. "It is a pity (faid the qqueen of France, when free l:card of his (death) that we cannot lay a fingle De profundis (trajer for the tead) for a man who has made us fing to many $T e$ Deums." All France lamented his death.

By his will, which is dated at Paris, March 1. 174S, he dirested that his body fhould be buried in quickline: "that nothing (lays he) may remain of me in this world but the remembrance of me among my friends." Thefe orders, howcyer, were not complied with; for his body was embalmed, put into a leaden conin, which w is inclufed in another of copper, and this covered
with one of wood, bound about with iron: His hedt was put into a fulver gilt box, and his entrails into another cortin. Louis XV. was at the charge of lifs funeral. By his order lis corple was interred with great pomp and fplendor is the Lutherat church of St 1 homac, at Strafberg, on the 8th Féruary 1751 .

The marechai was a man of ordinary titature, of a robuft conillitution, and cxiraordinary fitength. To an afpect, nobie, warlike, and mild, he joined the excellent qualities of the heart. Affable in his mánners, and difpofed to fympathize wihh the unfortunate, hifo generofity fometimes carried him beyond the limits of his fortune. On his death-bed he reviewed the erros: of his hife with semorfe, and exprefied much penitence.

The beft edition of his Reveries was printed at Pa ris $175 \%$, in two vols 4 to. It was compared with the greatelt attention with the original manufcript in the king's library. It is accompanied with many defigns exactly engraved, and a Life of the Author. The Life of Marecial Saxe was written by M1. d'Efpagnac, two vols 12 mo . This hiftory is writen in the panezyrical fyle. The author is, however, impartisl enough to remark, that in the three battles upon which the reputation of Marechal Saxe is founded, he engaged in the moft favourable circumftances. "Never did a general (fays he) ftand in a more advantageous fituation. Honoured with the confidence of the king, he was not reltrained in any of his projects. He always commanded a numerous army : his foldiers were fleady, and his officers ro:feffed great merit."

SAAIFRAG_1, Saxifrage, a genus of plants belonging to the decandria ciafs; and in the natural method ranking under the $13^{\text {th }}$ order, Succulenta. See Botayy Indu.

SAXO-Grammaticus, defcended from an illutrious Cose's Tra. Danilh (A) family, was born about the middle of the vels into 12th century. Stephens, in his edition of Saso Gram-Denmark. maticus, printed at Soroë, indubitably proves, that he muft have been alive in 1156 , but cannot afcertain the exact place aud time of his birth. See Stephens's Prolegomena to the Notes on Sano-Grammaticus, p. 8, to 24 ; allo Holbetg, vol. i. p. 269 ; and Mallet's North. Antiq. vol. i. p. 4. On account of his uncommon learning, Saxo was dittinguinhed by the name of Grammaticus. He was provoff of the cathedalal church of Rofkild, and warmly patronized by the learned and warlike Abfallon, the celebrated archbilhop of Lunden, at whofe infligation be wrote the Hiftory of Denmark. His epitaph, a dry panegryic in bad Latin verfes, gives no account of the era of his death, which happened, according to Stephens, in 1204. His hiffory, confifting of 16 books, begins from the earlieft account of the Danifh amals, and concludes with the year 1186 . According Holberg. to the opinion of an accurate writer, the firf part, which relates to the origin of the Dares, and the reigns of the ancient kings, is full of fables; but the eight laft books, and particularly thofe which regard the events of his own times, deferve the utmoft credit. He wrote in

Latin;

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## S A S

Saxo- La in ; the fityle, if wo confider the barbarous age in Grammati- which he tlourihed, is in general extremely clegant, but de Dannemare, vul. i. p. 182, fays, " that Sperling, a writer of great erudition, has proved, in contradiction to the affertions of Sieplens and others, that SaxoGrammatucus was fecretary to Abfalon; and that the Saxo provolt of Rofkild was awother perion, and lived carlier."

SAXCNY, the name of two circles of the Gcrman empise, an electorate, and a duchy of the fame. The lower circle is bounded to the fouth by the circle of Upper Saxony, and a part of that of the Upper Rhine; to the north, by the duchy of Slefwick, belonging to the king of Denmark, and the Baltic ; to the weit, by the circle of IVeitphalia and the North fea; and to the ealt by the circle of Upper Saxony. The ftates belonging to it are the dukes and princes of Magdeburg and Bremen, Zell, Gruveahagen, Calenburg, Wolfenbuttle, Halberllidt, Mechlenburg-Schwesin, Mecklenburg. Gutro, Holfein-Gluckitadt, Holttein-Gottorf, Hildetheim, Saxe-Laweaburg; the archbifhopric of Lubeck; the principali:ies of Schwesin, Ratzeburg, Blankenburg, Ranzan; the imperial cities of Lubeck, Gutzlar, Muhihaufen, Nordhatien, Hamburg, and Bremen. The dukes of Bremen and Magdeburg are aliernately directors and funmoring, princes; but, ever fince the year 1682 , the diets which ufed generally to be held at Brualwick or Lunenburg have been difcontinued. Towards the army of the empise, which, by a decree of the empire in 1681 , was fettled at 40,000 men, this circle was to furnih 1322 horfemen and 2727 fuot; and of the 300,050 tlorits granted to the imperial cheft in $17=7$, its riuutn was 31,271 florins; both which affeffments are the fume with thofe of Upper Sixony, Burgundy, Swabia, and Weftphalia. This circle at prefent nominates only two arefors in the cham'er. judicato:y of the empire, of one of which the elector of BrunlwickLunenburg has the nomination, who muit be a Lutheran, and is the ninth in rank. The inhabitants of this circle are almoft all Lutherans.

The circle of Upper Saxony is bounded by that of Franconi?, the Upper Rhine, and Lower Saxony ; and alfo by the Balic fea, Pruffir, Poland, Silefia, Lufatia, and Bohemia. It is of great extent, and contains the following flates; viz. the eicctors of Saxony and Brandenourg, Saxe- W"eimar, Saxe-Eifenach, Saxe-Cobourg, Save Gotha, Save-Alienburg, Saxe Querfurt, the Hither and Farther Pomerania, Camin, Anhatt, Quidlenburg, Gernrole, Walkenried, Schwarz: urg, Sonderfhaufen, Schwarzbure-Rudolftadt, Mansfeld, Stulberg, Barby , the counts of Reufien, and the counts of Schomberg. No ciets have been held in this circle firce the year 1633. The elector of Saxony has always been the fole fummoning prince and director of it. Moft of the inhabitants proiefs the Proteflant religion. When the whole empire fursilies 40,005 men, the quota of this circle is 13,22 horfe and 2797 foot. Of the $3: 0,000$ florins granted by the empire in 1707, it contributed only 31,271 tlorins, 28 kruizers, being rated no higher than thofe of Weftphalia, Lower Saxony, Swabia, and Burgunds, thowd it is much-larger. Agrecable to a refolption and rempation in 1654 , this circle nominates now on'y If ${ }^{\top}$. Teftor of the chamber-court.

The electotate coshits" of the duchy of Sasony, the
greateit part of the mergravate of Meifen, a part of Savony. the Vogtland, and the northern half of the landgravate of Thuringia. The Lufatias alfo, and a part of the country of Henneberg, belong to it, but are no part of this circle. The fun of the electural duminions lying in this circle is in gencral exceeding rich and fruitful, yielding corn, fruits, and pulfe in aundance, torether with hops, Hax, hemp, tobaceo, anileed, wild latfon, wood; and in fome places woad, wine, coals, porcelain clay, terra figillata, fullers-eath, fine thiver, various forts of beautitul marble, ferpentine flore, and alnoll alt the different fieceies of precious Rones. Sulphur allo, alum, vitriol, find, and fise tone, fait-fringe, amber, turf, cinnabar, quickfilver, antimony, bilmuth, arlenic, cobalt, and other minerals, are found it. This country, befides the above articles, contains likewife valuable mines of filver, copper, tin, lead, and iron; and abounds in many places with horned cattle, theep, horfes, and venifoa. The priacipal rivers by which it is watered are the Elbe, the Schwerze-Ellter, the Mulde, the Saale, the U'nftrut, the Weiffe-Ether, and the Pleifle. Thefe rivers, as weil as the lakes and rivulets, abound in fifm; and in the White-Ether are found beautiful pearls. This electorate is extremely well cultivated and inhabited, and is faid to include about 250 great and fmall towns, upwards of 5000 villages, 196 royal manors, and near as many royal caftles, befides private eltates, and commanderies. The provincial diets here confitl of three clafles. The firft is compoled of the prelates, the counts, and lords, and the two univer ities of Leipfic and Wittenberg. To the lecond belong the nosility in general, imnediate or mediate, that is, fuch as Itand immediately under the fief-chancery or the aulic judicatories, and fach as are inmediately under the jurifdiction of the anitman. The third clafs is formed of the towns in general. The general prorincial diets are ordinarily held every fix years; but there are others, called felection dicts, which are convened commonly eve:y two years. We would here obferve, that not only thele diets, but thofe in moit of the other Itates of Germany, are at prefent extremely infignificant and unimportant, retaining little mure than the fhadow of their former pusver and privileges; for even the petty princes, though they depend upon their more patent neighbours, and muft be careful not to give then any umbrage, are almolt as abfolute in their refpective territories as the grand feignion himfelf. As to religion, it was in this country that the reformation took its rife in the 16 th century, to which it hath ever fince adhered, according to the doctriaes of Luiher *. The two late electors, when they embraced * See RePonery in order to qualify themfelves to be elected kings formazioz, of Poland, gave the molt folemm afturances to their peo- $1^{\circ} \mathrm{S}$. ple, that they would inviolably maintain the ellablithed religion and its profefors in the full and free enjoyment of all their ecclefiallical rights, privileges, and prerogatives whatfocver, in regard to churches, ro: iaip, ceremonies, ufages, univerfities, fchools, bencfices, incomes, profits, jurifdictions, and immunities. The electoral families ftill continue Romon Catholics, though they have loft the crown of Poland, for which they at fint embraced Popery. With refiect to ecclefiaftical matters, the countrv is divided into parifhes, and thefe again into firitual infpections and confiftories, all fubordinate to the ecclefatlical council and upper confiftory of DrefYen, in which city and Leipfic the Calvinitis and Ro-

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Sn-y. man Catholif enjoy the free exercife of their religion. Learning flomilhes in this electornte; in which, tehdes the free-fichoe's nd gymalia in mull of the chiet towns, we the thu celebrated univerfitis of Wiftenber ${ }^{\prime}$ and I.cincis, in the lath of which are alfo toe eties for twe lilesil arts and the German lansuige, with bookelles and printers of the grenteft emivene. A great rariety of manufactures are alfo carnici on in this country. The princiatal are thole of fine and coarfe ii.en, thread, tise lace, paper, fine glalles and mixiors ; porcelain, equal if not fuperior to that of Chins: iton, brafs, and fleel ivaren ; manufactures of gold and filver, cotton, wool, and filk; gloves, caps, lats, and tapettry ; in which, and the matural productions mentioned above, together with dyeing, an important foreign cummerce is carried on. A great addition has been made fince the year I7IS to the electoral lerritori-c, by the extinction of the collateral branches of Zeiz, Menieburg, and Weifenfels, whofe dominions devolved to the elder electoral branch, defended from the margraves of Meififen. The firl of thefe, who was elector of Saxony, Was Frederick the Warlike, about the beginning of the 15 th century.

This elector ftyles himflf duke of Saxony, Juliers, Cleve, and Berg, as alfo of Engern and Weftphalia, arch-marialal and elector of the Holy Roman empire, Lendgrave in Thutingia, margrave of Meiffen, and of Upper and Lower Lufatia, burgrave of Maydeburg, princely count of Henaeberg, count of La Mark, Ravenfberg, Barby, and Hanau, and lo:d of Ravenfteis. Among the electors he is reckoned the fixth, :s great-marthal of the empire, of which he is alfo virr, during an interregnum, in all places not fubject to the vicariate of the count palatine of the Rhine. He i. moreover folc director of the circle; and in the vaancy of the fee of Meniz clains the directorium at the diet of the empire. His maticular affeffment, on account of the electorate, is $198+$ florins, belides what he pays for other diftricts and territonies. To the chamber courts he contrioutes, each telm, the fum of $15+5$ xix-dollars, together with $8_{3}$ rix-dollars and 62 kruitzers on account of the county of Mansfeld. In this electorate, fubordinate to the privy council, are various colleges tor the depatments of war, foreign affairs, the finances, fiefs, mines, police, and ecclefraftical affairs, together with high tribunals and courts of juflice, to which appeals lie from the inferior. The revenues of this elector are as confiderable as thofe of any prince in the empire, if we except thofe of the houfe of Auftria. They arife from the ordinary and extraordinary fubGidies of the thates ; lis own demefres, confiting of 7.2 briliwics: the impoit on beer, and the fine porcelain of the country; tenths of corn, fruit, wine, \&ic.; his own filver mines, and the tenths of thofe that belone to particulars; all wlii i, added torget'er, bring in a yearly revenue of bet .in 70,0001 . and 808,0001 . yet the electorate is at pu foit deeny in debt. The reffular t co ${ }^{2}$ acmmoaly anrow to 20,000 men, excluive of (1) militia of t C lan, the arricerean, and the body of miners and lanters, who are ol liged in time of war to bear arms. The whole electorate is divided into circles.

The e.ectoral circle, or the ducly of Saxony, is bounded by the circles of Meiffen, Leipzi, and Tharingia, the princjpali $y$ of Anhalt, the in rel.e of ElianAtabug, and Lutatia. Tine primeciali.y of Amhalt lies
acrofs it, anii divides it into two parts. Is greatent length and breadh is computed at alout 40 miles; but
 tle Dishe, it is .-. .a) fruittil, the tol for the mut part contiling of and. If cont: is $2+1$ ars, the ee bomughs, betwixt $+: 0-\mathrm{m} \sqrt{500}$ villages, 164 moblemen's eilates, 11 fipe:interdwincs, three info ctions under on cuililtory, and in prefecturates or dilitricts. The piefent duchy of Saxuny is nut to be confounded with the oid; for the latter was of a much greater exient, and con ained in it thofe large tracls anciently called E Iphaila, Engovn, and Wefpphalia, of which the electotal circle was no part, but was taken by Albert the Bear, margrave of Saizwedel, from the Venedi. His fon Bermard obtainiing the dignity of duke of Saxony from the emperor Fiederic I. the name of duchyy was given to this country ; and the electoral dignity having been afterwards annexed to the ducliy, it acquired thereby alto the name of the electoral circle.

The country of Saxony is remarkalle for bcing the motter of the prefont Englifa nation; but concerning the Saxons thenifelves, previous to that period, we have very few particulars. The Saxons (Cays Mr Whitaker) have been derived by our hiftorians from very different parts of the globe; India, the north of Afia, and the forells of Germany. And their appellation las been equally referred to very different caufes; the name of their Indian progenitor, the plandering difpofition of their Alaatic fathers, and the floort hooked weapons of their warrions. Eut the real origin of the Saxons, and the genuine derivation of their name, feem cleaily to be thefe.

In the earlier period of the Gallic hiftory, the Celtw of Gaul croffed the Rline in confiderable numbers, and planted various colonies in the regions beyond it. Thus the Volcer Tectulages fettled on one fide of the Hercynian forect and about the banks of the Neckar, the Helvetii upon another and about the Rline and Maine, the Boii beyond toth, and the Senones in the heart of Germany. Thus alfo we fee the Treviri, the Nervii, the Suevi, and the Marcomanri, the Quadi, the Venedi. and others, in that country; all plainly betrayed to be Gallic nations by the Gallic appellations which they bear, and all together pofiefling the greateft part of it. And, even as late as the concluifon of the filt century, we find one nation on the eaftern fide of this great continent actually fpeaking the language of Gaul, and another upon the northern ufing a dialcet nearly related to the Britilh. But as all the various tribes of the Germans are confilered by Strabo to be yempioo 「 $\alpha \lambda \alpha\rceil$ lat, or genuine Gauls in their origin ; fo thole particularly that fived immediately beyond the Rhine, and are afferted by Tacitus to be indubitably native Gcrmans, are exprefily denominated 「aגcias, or Gauls, by Diodorus, and as exprifly declated by Dio to have been difinguifled by the equivalent appellation of Celle from the earlielt periad. And the broad line of nations, which extended along the occan, and reached to the borders of $\mathrm{S} y$ thia, was all known to the learned in the days of Diodor.se, by the fame fignificant appeltation of $\Gamma \propto \lambda \alpha$ las, or Gauls.

Of thefe, the moft noted were the Si Cambri and Cimbri; the former being feated near the channel of the Rhine, and the latter inhabiting the penimflula of Jutlard. And the denominationis of both declare their original ;

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Saxony. original ; and fhow them to have been derived from the common fock of the Celte, and to be of the fame Celtic kindred with the Cimbri of our own Somerfethire, and the Cymbri or Cambrians of our own Wales. The Cimbri are accordingly denominated Celfer by Strabo and Appian. And they are equally affierted to be Gauls by Diodorus, to be the defcendants of that nation which facked the city of Rome, plundered the temple of Delphi, and fubdued a great part of Europe and fome of $A$ fia.

Immediately to the fouth of thefe were the Saxons, extending from the ifthmus of the Cherfonefus to the current of the Elbe. And they were equally Celtic in therr origin as their neighbours. They were denominated Ainbrones as well as Saxons; and, as fuch, are included by Tacitus under the general appeliation of Cimbri, and comprehended in Plutarch under the equal one of Celto-Scyther. And the name of Ambrones appears particularly to have been Gallic; being common to the Saxons beyond the Elbe, and the Ligurians in Cifalpine Gaul; as both found to their furprife, on the irruption of the former into Italy with the Cimbri. And, what is equally furprifing, and has been equally unnoticed by the critics, the Wefh diftinguin England by the name of Loegr or Liguriu, even to the prefent moment. In that irruption thefe Saxons, Ambrons, or Ligurians, compofed a body of more than 30,000 men, and were principally concerned in cutting to pieces the large armies of Manlius and Crepio. Nor is the appellation of Saxons lefs Celtic than the other. It was originally the fame with the Belgic Sueflones of Gaul ; the capital of that tribe being now intitled Soifons by the French, and the name of the Saxons pronounced Saijen by the Welh, Safon by the Scotch, and Safenach or Saxfenach by the Irifh. And the Sueffones or Saxones of Gaul derived their orm appellation from the pofition of their metropolis on a river, the ftream at Soifons being now denominated the Aijne, and formerly the Axon; Ueffon or Axon importing only waters or a river, and S-ueffon or S -ax-on on the waters or the river. The Sueffones, therefore, are actually denominated the Uefones by Ptolemy; and the Saxones are actually intitled the Axones by Lucan.

Thefe, with their brethren and allies the Cimbri, having been more formidable enemies to the Romans by land, than the Samnites, Carthaginians, Spaniards, Gauls, or Parthians, in the fecond century applied themfelves to navigation, and became nearly as terrible by fea. They foon made themfelves known to the inhabitants of the Britifh ifles by their piracies in the northern channels, and were denominated by them Lochlyn or Lochlynach; lucd-lyn fignifying the people of the wave, and the $d$ being quiefent in the pronunciation. They took poffeffion of the Orkney illands, which were then merely large fhoals of fand, uncovered with wood, and overgrown with rufhes; and they landed in the north of Ireland, and ravaged the country. Before the middle of the third century they made a fecond defcent upon the latter, difembarked a confiderable body of men, and defigned the abfolute fubjection of the illand. Before the conclufion of it, they carried their naval operations to the fouth, infefted the Britifh channel with their little veffels, and made frequent defcents upon the coafts. And in the fourth and fift centuries, acting in conjunction with the Piets of Caledonia and the Scots of Ire-

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land, they ravaged all the eaftern ond fouth-eaftern hores of Britain, began the formal conqueft of the country, and finally fettled their victorious foldiery in Lancallire.

5
Scaid-
cream.
SAY, or Saye, in Commerce, a kind of ferge much ufed abroad for linings, and by the religious for fhirts; with us it is ufed for aprons by feveral forts of artificus, being ufually dyed green.

SĊAb. See Itch and Medicine.
S'cab in Sheep. See Sileep, Difeafes of, under Farriery.

SCABIOSA, Scabrous; a genus of plants belonging to the tetrandria clais; and in the natural method ranking under the 48 th order, Aggregata. See Botany Index.

SCABRITA, a genus of plants belonging to the tetrandria clafs. See Botany Index.

SCEVOLA, C. Mucius, a young Roman of illuftrious birth, is particularly celebrated in the Roman hiftory for a brave but unfucceffful attempt upon the life of Porfena King of Hetruria, about the year before Chrift 504. See the article Rome, No 71 .

Scevola, a genus of plants belonging to the pentandria clafs. See Botany Index.

SCAFFOLD, among builders, an affemblage of planks and boards, fuftained by treffels and pieces of wood fixed in the wall; whereon mafons, bricklayers, \&.c. fland to work, in building high walls, and plafterers in plaftering ceilings, \&c.

Scaffold, alio denotes a timber-work raifed in the manner of an amphitheatre, for the more commodious viewing any fhow or ceremony: it is alfo ufed for a flage raifed in fome public place for the execution of criminals.

SCALA-nova, anciently Neapolis, called by the Turks Kou/badafe, is fituated in a bay, on the nope of a hill, the houfes rifing one above another, intermixed with minarets and tall flender cyprefles. "A ftreet, through which we rode (fays Dr Chandler $\dagger$ ), was hung + Travels with goat-fkins expofed to dry, dyed of a mof lively red. in Affa At one of the fountains is an ancient colfin ufed as a ci- Minor. ftern. The port was filled with fmall craft. Before it is an old fortrefs on a rock or iflet frequented by gulls and fea-merrs. By the water-fide is a large and good khan, at which we paffed a night on our return. This place belonged once to the Ephefians, who exchanged it with the Samians for a town in Caria."

SCALADO, or Scallade, in the art of war, a furious affault made on the wall or rampart of a city, or other fortified place, by means of ladders, without carrying on works in form, to fecure the men.

SCALD-creant, fometimes alfo called Clouted.cream; a curious method of preparing cream for butter, almoft peculiar to Devonfhire. Dr Hales, in Philofophical Tranfactions volume xlix. p. 342,1755 , Part I. gives fome account of the method of preparing this delicate and luxurious article; other writers allo fpeak of it. With an elucidation or two, we fhall nearly quote Mr Feltham's account from the Gentleman's Magazine, volume lxi. Part II. It is there obferved, that the purpofe of making fcald-cream is far fuperior butter than can be procured from the ufual raw cream, being preferable for flavour and keeping; to which thole accultomed are fo partial, as feldom to eat any other. As leaden cifterns would not anfwer for fcalding cream, the
dairies

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dairies moally adopt brafs pans, which hold from three to five gallous for the milk ; and that which is put into thoic pans one morning, flands till the next, when, without diturbing it, it is fet over (on a trivet) a fleady brisk wood fire, devoid of fmoke, where it is to remain from leven to fifteen minutes, according to the fize of the pan, or the quantity in it: the precife time of removing it from the fire muft be particularly attended to, and is, when the furface bcgins to wrinkle or to gather in a little, fhowing figns of being near the agitation of boiling, which it muft by no means do; it is then inllantly to be taken off, and placed in the dairy until the next morning, when the fine cream is thrown up, and may be taken for the table, or for buttct, in,to which it is now foon converted by flirring it with the hand. Some know when to remove it frum the fire by founding the pan with the finger, it being then lefs fonorous ; but this can only be acquired by experience. Dr Hales obferves, that this method of preparing milk takes off the ill tafte which it fometimes acquires from the cows feeding on turnips, cabcage, \&c.

SCALDS, in the hiltory of literature, a name given by the ancient inhabitants of the northern countries to their poets; in whofe writi-gs their hiffory is recorded.

SCALE, a mathematical infrument confifing of feveral lines drawn on wooj, brafis, filver, \&c. and variouily divided, according to the purpofes it is intended to ferve; whence it acquires various denominations, as the plain fcale, diagonal fale, plotuing fale, \&c.

Scale, in Mufic, fomeimes denominated a gamut, a diagram, a fories, an erder, a diapecon. It conlits of the segular gradations of fur...d, by which a cenpofer or performer, wheil er in wing g or def.cending. may pats from any given tone to another. Thefegradatichs are feven. When this order is repcated, the firf note of the ficond is confentaneous with the lowell note of the Irrf; the fecond of the former with the fecend of the latter; and fo through the whole octave. The fecmad order, therefore, is juflity eftcemed only a repetition of the firft. For this reafon the feale, among thic modens, is fometimes limited to an cetave; at other times extend. ed to the compars of any particular voice or inttrumeat. It likewic frequently iacludes all the practical gradations of nufical found, or the whole number of octaves empleyed in compofition or exccution, arranged in their natural order.

Scale, in Architecture and Gengraphy, a line divided into equal parts, placed at the bottom of a map or draught, to ferve as a common meafure to all the parts of the building, or all the diffances and places of the map.
gCalene, or Scalenous Triangle, foalinum, in Gecmet $y$, a tri:ngle whofe fides and angles are unc.ual. Sec Grometry.
©CALENUS, in Alvatury. Sce there, Table of the Mulctis.

SCALIGER, Julius Casar, a learned critic, poct, phytician, and phailofopher, was born at the caft'e of Ripa, in the territorites of Verona, in 1484 ; and is faid to have been defcended from the ancient princer of Tesona, though this is $n$ mentianed in the letters of natural zation he obtained in France in $15^{-8}$. He learned the firft rudiments of the Latin congue in his own country; and in his 12 th year was prefented to the emperor Muximilian, who made kim one of his
pages. He icived that emperor 17 years, and gave lis nal proofs of his valour and conduct in Icreal expeditions. He was prefent at the battle of Ravenna in April 1512, in which he had the misfortune to lofe his taiber Benedict Scaliger, and his brether Titus; on which his mother died with grief: when leci .g reduced to necefitous ciicumflances, hie entered into the crder of the Francifcans, and appled himelf to tudy at Bolegna; but foon after changing his mind with relpect to his becroming a monk, he took arms again, and ferred in Picdmont; at which time a phefictan pertuaded him to fludy pliyfic, which he did at his leifure hours, and allo learned Greek ; and at laft the gout determined him, at 40 years of age, to abandon a military life. Hie loon after fettied at Agen, where be niaried, and began to apply himielf eerncully to his I widies. He learned forlt the Frerich toncut, thich be fipcke perfectiy in thiree mocntlis ; and then rade himielt niafler of the Gafcon, Italian, Spanifh, Germar, Hungatian, and Sclavonian : but the clief olject of his fludies was police litera:ure. Nieanwhile, he furforted his family ty the practice of phyfic. He did t:ot futlifa any of his wa:hs till tee was 47 years of age; when lie foon gained a great rame in the repulbic of letters. Fe had a graceful jestun, and to frong a niemory, evon in his clu age, that he dictated to his ten $2 c 0$ vires which ie had conspoled the diay betere, ard uctained with ut writing them dewn. He vas fo charitatie, tiac h, is howfe was as it were an hofpital for the four and fick; and lie had fuch an averfion to lying, that he would have no correfponetace with thole who wer: given to that vice; but, on ihe o ber lia.d, h.e lad nuch vanity, and a fonitic: lipuit, wixt cucated him nany e crices. He dide of a recution of unse in 1558. Ile wro'e in Lawin, 1. A 'i reatite on thie Ayt of Poetry. 2. Exercitations againft Cardan: whels wuis are n:u h eficemed. 3. Commertains or: AriAu.k': Niticry of Arimals, and on 11... reftus on 1inats. 4 Senc incaties on Plyfic. 5. Letters, O . 1. . . is, Puen - ard ot: 1 voohs, it Lasin.

Staiticte, fofphe Johus, wie the moft learn-d critics and writers of his tinc. Ife was the fon of the fomer, and wis born at $\Delta$ gen in France in $15 \downarrow$. He hudied in the collcre of Exurdeas: : after nuich his fatler tock him under his of in eaie, and emplyed lim in tranio iting his poems: Ly which mears lie obtained liche a tatie for potiry, that tefore he was 17 yars old te woote a tr.gidy upen the futject of Oedipus, in which te intruceced th thr poe ical orra. ments of fyle ardifentimicu. His fa herding in 1558 , he went to Paris the ye.r foilcwaitg, with a defign to apply himlelf to the Greek tesgue. For this purpue he for two mon i), atter ded tic leetures of 'I usne' us; but finding that in tle ufial ceu te le ficuid be a lo g time in grinsing his poi t, le llw hie lelf en in his cloder, and by centan... कplicnit $n$.ortwo vears gained a perte ct
 to the Hichew, which he leaned by himkif wih great facility. He male no lefs progrefs in the fciences; and his writin: s procured him the reputation rione of the greateft men of that or any other age. He cmlraced the retormed religion at 22 years of ase. Ii) 16.3 , he atlached himfelf to Lewis C:flein mier de la Picech l'ozay, whom he attended in feveral jumers; fid in 2593, was invited to accept of the piace of homerary ptoficior

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Scrliger profelur of the univerfity of Legden, which he compried with. He died of a droply in that city in 1620 . He was a man oi great temperance; was never married ; and was fo ciele a fludent, that he often frent whole days in his ftudy without eating; and though Lis circumitances were always very narrow, he conft.antly refufed the prefents that were offered him. He puolithed many works; the principal of which are, 1. Notes on Seneca's Tragedies, on Varro, Aufonius, Pompeius Fehus, \&ic. 2. His Latin Poems. 3. A Treatile de Em.ndatione Timporum. 4. Eufebius's Caronicle, with Notes. 5. Canones I/Cegrici; and many other works. The collections enlitled Saligeriana, were collected from his converfations by one of his friends; and being ranged into alphabetical order, were pablithed by Ifaic Voffius.

SCallop. See Ostrea, Coxchology Index.
In the Highlands of Scotland, the great fcallop fhell is made wie of for dsimming milk. In old times, it had a more honourable place; being admitted into the halls of herocs, and was the cup of their feftivity when the tribe affembled in the hall of their chieftain.

SCALPEL, in Sursery, a kind of knife ured in anatomical di.ecrions and operations in furgery.

SCALPER, or Scalfing-Irox, a furgeon's inflrument ufed for feraping foul carious bones.

SCALPNNG, in military hillory, a barbarous cufom, in pradice among the Indian warriors, of taking 'off the tops of the falps of the enemies fhulls with their hair on. They preferve them as trophies of their victories, and are rewarded by their chiefs according to the number of fcalps they bring in.

SCALPRA dextalia, inftruments ufed by furgeons to take off thofe black, livid, or yellow crufts which adhere to the teeth, and not only looien and deftroy them, but taint the breath.

SCAMIMONI, a concreted regetable juice of a fpecies of convolvulus, partly of the refin, and partly of the gum Kind. See Convolvulus, Materia Medica Index.

SCAND ALUMI magnitem, in Law, is a defamatory fpeech or writing to the injury of a perfon of dig. nity; for which a writ that bears the fame name is granted for the recovery of damages.

SC. 4 NDERBEG, the furname of George Caftrot king of Albania, a province of Turkey in Europe, dependent on the Ottoman empire. He was delivered up with bis three elder brothers as hoffages, by their Father, to Amurath HI . fultan of the Turks, who poifoned his brothers, but fpared him on account of his youth, being likervife pleafed with his juvenile wit and amiable perfon. In a flort time he became one of the moit renowned generals of the age; and revolting from Amurath, je joined Hunniade Corvin, a moft formidable enemy to the Ottoman power. He defeated the fultan's armv, took Amorath's fecretary prifoner, obliged him to fign and feal an order to the governor of Croia, the capital of Albania, to deliver up the citadcl and city to the bearer of that order, in the name of the fultan. With this forged order he repaired to Croia; and thus recovered the throne of his anceffors, and maintained the independency of his country againht the numernus armies of Amurath and his fucceffor Mahommed II. who was obliged to make peace with this hero in 1461 . He then went to the affifance of Fer-
dinand of $A$ rragon, at the requeft of Pope Pius If. and ty his aflitauce Ferdinand wined a complete vic actidus? tory over his enemy the count of $\Lambda$ tijou. Scariderbeg vis. died in $146 \%$.

SCanderoon. See Alexindretta.
SCANDINAVIA, a general name for the countries of Norway, Sweden, and Denmak, ancently under the dominion of one price. The inhabitan s of thele countries, in former times, were exceffively addieted to war. From their earlieft years they arplied themfelves to the military art, and acculomed themfelves to cold, fatigue, anid hunger. Even the very fiorts of youth and childhood were dangerous. They conlifted in taking frightol leaps, climhing up the fleepelt rocks, fighting naked with offenfive weapons, wrelling with the uiniolt fury; fo that it was ufual to fee them grown up to be robutt men, and terrible in the combat, at the age of 15 . At this early age the young men becanse thicir own matkers; which they did by receiving a firord, a buckler, and a lance. This cercmony was performed at fome public meeting. One of the principal men of the affembly named the youth in public; after which he was obliged to provide for his own fubfifience, and was either now to live by hunting, or by joining in fome incurfion againlt the enemy. Great care was taken to prevent the young men from too early connections with the fermale fex; and indeed they could have no hope to gain the affection of the fair, but in proportion to the courage and addrefs they had fhown in their military exercifes. Accordingly, in an ancient long, we find Bartholin, king of Norway, extremely furprifed that his miftrels fhould prove unkind, as he could perform eight different exercifes. The children were generally born in camps; and being inured from their infancy to behold nothing but arms, cffufion of blood, and flaughter, they imbibed the cruel difpofition of their fathers, and when they broke forth upon other nations, belaved rather like furies than like human creatures.

The laws of this people, in fome meafine, refembled thofe of the ancient Lacedemonians. They knew no sirtue but bravery, and no vice but cowardice. The grcateft penalliee were inflicted on fuch as fled from battle. The laws of the ancient Danes declared fuch perfons infamous, and excluded them from fociety. Among the Germans, cowirds were fometimes fi:ffocated in mud; after which they were covered over with hurdles, to flow, fays Tacitus, that though the punill, ment of crimes tha uld be public, there are certain degrees of cowardice and infany which ought to be buried in oblivion. Frotho king of Denmark enacted, by law; that whoever folicited an eminent poft ought upon all occations to attack one enemy, to face two, to retire only one flep back from three, and never to make an actual retreat till affulted by four. The rules of juflice themfilives were adapted and warped to thefe prejudices. War was looked upon as a real an? of jultice, and force was thought to be an inconteftable title over the weak, and a vifible mark that God had intended them to be fubjeet to the firong. They had no doubt but that the intentions of the Deity had been to elkablifh the fame dependence among men that takes place among inferior creatures ; and, fetting out from this principle of the natural incquality among men, they had from thence inferred that the weak had no right

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Scandina- to what they could not defend. This maxim was advia.

## Nia.

 opted with fuch rigour, that the name of divine judgement was given not only to the judicatory combat, but to conflicts and battles of all forts; victory being, in tiseir opinion, the only certain mark by which providence enables us to diftinguifh thofe whom it has appointed to command others.-Lafly, Their religion, by annexing eternal happinefs to the military virtues, gave the utmoft poffible degree fof vigour to that propenfity which thefe people had for war, and to their contempt of death, of which we thall now give fome inftances. We are informed that Hatold, furnamed Blaatand, or Blue-tooth, a king of Demmark, who lived in the beginning of the ninth century, had founded on the coafts of Pomerania a city named Julin or Jonyburg. To this place he fent a colony of young Danes, befowing the government on a clebrated warrior called Palnatoko. In this colony it was forbidden to mention the word fiar, even in the moft imminent dangers. No citizen of Jomiburg was to yield to any number of enemics however great. The fight of inevitable death was not to be taken as an excufe for flowing the fmalleft apprehenfion. And this legiflator really appears to have eradicated from the minds of molt of the youths bred up under him, all traces of that fentiment fo natural and fo univerfal, which makes men think on their deftruction with horror. Nothing can fhow this betier than a fingle fact in their hillory, which deferves to have place here for its fingularity. Some of them having made an irruption into the territories of a powerful Norwegian lord, named Haquin, were overcome in fpite of the obftinacy of their refiftance; and the moft diftinguifhed among them being made prifoners, were, according to the cultom of thofe times, condemned to death. The news of this, far from afflicting them, was on the contrary received with joy. The firft who was led io punifhment was content to fay, without changing countenance, and without expreffing the leaft fign of fear, "Why flould not the lame happen to me as did to my father? He died, and fo mult I." A warrior, named Thorchill, who was to cut off the head of the fecond, having aked him what he felt at the fight of death, he aniwered, "that he remembered too well the laws of Jomiburg to utter any words that denoted fear." The third, in reply to the fame queftion, faid, " he rejoiced to die with glory; and that he preferred fuch a death to an infamous life like that of Thorchill's." The fourth made an anfwer much longer and more extraordinary. "I fufter with a good heart; and the prefent hour is to me very agreeable. I only beg of you (added he, addrefling himfelf to Thorchill) to be very quick in cutting off my head; for it is a quellion often debated by us at Jomfburg, whether one retains any fenfe after being beheaded. I will therefore grafp this knife in my hand; if, after my head is cut off, I ftrike it towards you, it will how I have not loft all fenfe, if 1 let it drop, it will be a proof of the contrary. Make hafte thercfore, and decide the difpute." Thorchill, adds the hiltorian, cut off his leead in a mof expeditious manner; but the knife, as might be expected, dropt from his hand. The fifth flowed the fame tranquillity, and died rallying and jeering his enemies. The fixth begged of Thorchill, that he might not be led to purifhnent like a fleep; "Strike the How in my face (Faid he), I will fit flill wihoutfhrinking; and take notice whether I once wink my Scandinaeyes, or betray one fign of fear in my countenance: for we inhabitants of Jomiburg are ufed to exercife ourfelves in trials of this fort, to as to meet the Itroke of death without once moving." He kept his promife before all the feetators, and received the blow without betraying the leatt fign of fear, or fo much as winking with his eyes. The feventh, fays the hiltorian, was a very beautiful young man, in the flower of his age. His long hair, as fiue as filk, floated in curls and ringlets on his thoulders. Thorchill aked him, what he thought of death? " I receive it nillingly (faid he), fince I have fulfilled the greatelt duty of lie, and have feen all thofe put to death whom I would not furvive, I only beg of you one favour, not to let niy hair be touched by a liave, or ftained with my blood."

Neither was this intrepidity peculiar to the inhabitants of Jomburg; it was the general character of all the Scandinavians, of which we litall only give this further inflance. A warrior, having been thrown upon his back in wreftling with his enemy, and the latter finding himfelf without his aims, the vanquithed perfon promifed to wait, without changing his pofture, till his antagonift fetched a fword to kill him ; and he faithfully kept his word- - To die with his arms in his hand was the ardent wifh of every free man; and the pleafing idea which they had of this kind of death led them to dread fueh as proceeded from old age and difeafe. The hiiloyy of ancient Scandinavia is full of inftances of this way of thinking. The warriers who found themelves lingering in difeafe, often availed themflives of their few remaining moments to fhake off life, by a way that they fuppofed to be more glorious. Sume of them would be carried into a field of battle, that they might die in the engagement. Others flew themfelves: many procured this melancholy fervice to be performed by their friends, who confidered it as a moft facred duty. "There is, on a mountain of Iceland, (lays the author of an old Iceland romance), a rock fo ligh, that no animal can fall from the top and live. Here men betake themfelves when they are afflicted and unhappy. From this place all our anceilors, even without waiting for ficknef, have departed into Eden. It is ufelefs, therefore, to give ourfelves up to groans and complaints, or to put our relations to needlefs expences, fince we cai eafily follow the example of our fathers, who have all gone by the way of this rock."- When all thefe methods failed, and at laft when Chrittianity had baninhed fuch barbarous practices, the difconfolate heroes confoled themfelves by putting on complete armour as foon as they found their end approaching.

SCANDIX, Shepherd's Needle, or Venus Comb, a genus of plants, belonging to the pentandria clafs; and in the natural method ranking under the 45 th order, Umbellate. See Botany Index.

SCANNING, in Poetry, the meafuring of verfe by feet, in order to fee whether or not the quantities be duly obferved. The term is chiefly ufed in Greck and? Latin verfes. Thus an hexameter verfe is fcamed by refolving it into fix feet; a pentameter, by refolving is into five feet, \&\&c.

SCANTLING, a meafure, fize, or flandard, by which the dimenfions, \& E . of , hings are to be determined. The term is paslicularly apphied to the dinien-

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Sianntn ${ }^{\text {² }}$ fions inf any piece of timber, with regard to its breadth II. and thicknefs.

SCANTO, or Sp.Avento, a fudden impreftion of horror upon the mind and body. It is extremely dreaded by the inhabitants of Sicily; and the wild ideas of the vulgar part of the inhabitants refpecting it are almot increcibie, and their dread of a fudden fhock is no lefs furpriting. There is fcarce a fymptom, dif- order, or accident, they do not think may befal the human frame in confequence of the fcanto. They are perfuaded that a man who has been frightened only by a dog, a viper, fcorpion, of any other creature, which he has an antipathy io, will foon be feized with the fame pains he would really feel, had he been torn with their teeth, or wounded with their venomous fling; and that nothing can remove thefe nervous imaginary pangs but a ftrong dofe of dilena, a fpecies of cantharides found in Sicily.

SCAPE-Go.IT, in the Jewih antiquities, the goat which was fet at liberiy on the day of folemn expiation. For the ceremonies on this occafion, fee Levit. xvi. $5,6, \& c$.

Some fay, that a piece of fcarlet cloth, in form of a tongue, was tied on the forehead of the fcape-goat. Hoff. Lex. Univ. in voc. Lingua.

Many have been the difputes among the interpreters concerning the meaning of the word foape-goat ; or rather of azazel, for which foape-goat is put in our verfion of the Bible.

Spencer is of opinion, that azazel is a proper name, fignifying the devil or evil diemon. See his reafons in his book De leg. Hebr. ritual. Differt. viii. Among other things, he obferves, that the ancient Jews ufed to fubftitute the name Samaël for Azazel; and many of them have ventured to affirm, that at the fealt of expiation they were obliged to offer a gift to Samael to obtain his favour. Thus alfo the goat, fent into the wildernefs to Azazel, was underflood to be a gift or oblation. Some Chritians have been of the lame opinion. But Spencer thinks that the genuine reafons of the ceremony were, I. That the goat, loaded with the fins of the people, and fent to Azazel, might be a fymbolical reprefentation of the miferable condition of finners. 2. Gad fent the goat thus loaded to the evil demons, to flow that they were impure, thereby to deter the people from any converfation or familiarity with them. 3. That the goat fent to Azazel, fufficiently expiating all evils, the lfraelites might the more willingly abftain from the expiatory facrifices of the Gentiles.

SCAPEMENT, in clock-work, a general term for the manner of communicating the impulfe of the wheels to the pendulum. The ordinary fcapements confit of the fwing-wheel and pallets only; but modern improvements have added other levers or detents, chiefly for the purpofes of diminithing friction, or for detaching the pendulum from the preffure of the wheels during part of the time of its vibration. See $W^{\top}$ ATCH-Work.

SCAPULA, in Anatomy, the fhoulder, or flooulderbonc.

- Scapria, Jofin, the requted author of a Greek levicon, fludied at Laufanne. His name is recorded in the annals of literature, meither on account of his talents nor learning, nor virtuous induftry, but for a grofs nct of difimgenuity and froud which he comnitted againt an
eminent literary character of the 16 th century. Ecing employed by Henry Stephens as a corrector to his preis while he was publifhing his Thefauris linguce Gracae, Scapula extracted thofe words and explications which he reckoned moft ufeful, comprifed them in one volume, and pablithed them as an original work, with his own name.

The compilation and printing of the Thefaurus had coft Stephens immenfe labour and expence; but it was fo much admired by thofe learned men to whom he had fhown it, and feemed to be of fuch effential importance to the acquifition of the Greek language, that he reafonably hoped his labour would be crowned with honour, and the money he had expended would be repaid by a rapid and extenfive fale. But before his work came abroad, Scapula's abridgement appeared; which, from its fize and price, was quickly purchafed, while the Thefaurus itfelf lay neglected in the author's hands, The confequence was, a bankruptcy on the part of Stephens, while he who had occafioned it was enjoying the fruits of his treachery. Scapula's Lexicon was firlt printed in 1570 , in $4^{\text {to. It was afterwards enlarged, }}$ and publifthed in folio. It has gone througl: feveral. editions, while the valuable work of Stephens has never been reprinted. Its fuccefs is, however, not owing to its fuperior merit, but to its price and more commodious fize. Stephens charges the author with omitting a great many important articles. He accufes him of miff underitanding and perverting his meaning; and of tracing out abfurd and trifling etymologies, which he himfelf had been careful to avoid. He compofed the following epigram on Scapula :

## $\underbrace{\text { Quidam }}$ smitifuwv me capulo tenus abdidit enfem EEger cram à Scapulis, fanus et luc redeo.

Doctor Bufby, fo much celebrated for his knowledge of the Greek language, and his fuccefs in teaching it, would never permit his fcholars at Weftminfter fchool. to make ufe of Scapula.

SCAPULAR, in Anatomy, the name of two pair. of arteries, and as many veins.

Scapular, or Scapulary, a part of the habit of feveral religious orders in the church of Rome, worn over the gown as a badge of peculiar veneration for the Bleffed Virgin. It confifts of two narrow flips or breadths of cloth covering the back and the breaft, and hanging down to the feet.- The devotees of the fcapulary celebrate its feftival on the 10 th of July:

SCARIBEUS, the BIETIIE, a genus of infects of the coleoptera order. Sce Entomology Index.

SCARBOROUGH, a town of the north riding of Yorkihire, feated on a Steep rock, near which are fuch craggy cliffs that it is almoft inacceflible on every fide. On the top of this rock is a large green plain, with two wells of frell water fpringing out of the rock. It is greatly frequented on account of its mineral waters callcd the Scarborough-Spa; on which account it is much improved in the number and beauty of the buildings. The fpring was under the cliff, part of ninich fell down in 1737 , and the water was lolt; but in clearing. away the ruins in order to rebuild the wharf, it was recovered, to the great joy of the town. The waters of, Scarborough are chalybeate and purgipg. The two wells are both impregnatad with the fame principles, in different proportions; though the purging well is the

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Siarbo- moft celebrated, and the water of this is ufually called the Scarborough water. When thefe waters are poured out of one glals into another, they throw up a number of air bubbles; and if they are flaken for fome time in a phial clofe flopped, and the phial be fuddenly opened before the commotion ceafes, they difplode an elaflic vapour, with an audible noife, which flows that they abound in fixed air. At the fountain they have a brilk, pungent chalybeate tafte; but the purging water taftes bitterifh, which is not ufually the cafe with the chalybeate one. They fofe their chalybeate virtues by expofure and by keeping; but the pursing water the fooneft. They both putrefy by keeping; but in time recover their fureetnefs. Four or five half pints of the purging water drank within an hour, give two or three eafy motions, and raife the fpirits. The like quantity of the chalyteate purges lefs, but exhilerates more, and paffes of chiefly by urine. Theie waters have been tound beneficial in hectic fevers, weakneffes of the ftcmach, and indigeftion; in relaxations of the fyflem; in nervous, hyfteric, and hypochondriacal diforders; in the green ficknefs, fcurvy, rheumatifm, and anl:matic complaints; in gleets, the fluor albus, and other freternatural evacuations; and in habitual coftivenefs. Here are affemblies and balls in the fame manner as at Tunbridge. It is a place of fome trade, has a very good harbour, and fends two members to parliament. E. Long. 54. 18. N. Lat. O. 3.

SCAPDONA, a feaport town of Dalmatia, feated on the eaftern banks of the river Cherca, with a bithop's fee. It has been taken and retaken feveral times by the Turks and Venetians; and thefe laft ruined the fortifications and its principal buildings in 1537; but they have been fince put in a fate of defence.

Traicels もnt? DalMkitia.
"No veftiges (fays Fortis) now remain vifiole of that ancient city, where the fate of Liburnia held their affembly in the times of the Romans. I however tranfrribed thefe two beautiful inferiptions, which were difcovered fome years ago, and are preferved in the houfe of the reverend canon Mercati. It is to be hoped, that, as the population of Scardona continues increafing, new lands will be broken up, and confeguently more frequent difcoverics made of the precious monuments of antiquity. And it is to be wihhed, that the few men of letters, who have a thare in the regulation of this revivisg city, may beftow fome particular attention on that article, fo that the honourable memorials of their ancient and illuftious country, which once held fo eminent a rank among the Liburnian cities, may not be lon, nor carried away. It is almoft a fhame, that oify fix legible infcriptions actually exift at Scardona; and that all the others, fince many more certainly muft have lieen dug up there, are cither miferahly broken, or loft, or tranfported to Italy, where they lofe the greatef part of their merit. Roman coins ate very frequentiv found ahout Scardona, and feveral valuable oncs were fhown to me by that hofpitable prelate Monfignor TreTitani, bifiop and father of the rifing fettlement. One $o^{*}$ the principal gentlemen of the ;lace was fo hind as to five me feveral fepulchral làmps, which are marked by the name of Fortis, and by the elegant form of the letters appear to be of the boft times. The repeated devaflations to - ich Scardona has heen expufed, have left it no traces of grandeur. It is now, however, begimning to rife aghin, and many merchants of Servia
and Bofnia have fettled there, on account of the con- Scarifica. venent fituation for trace with the uprer previnces of tion Turkey. Bat the ci $y$ has no furtitioatiotis, notwithflandag the afertion of P. Farlati to the contray ${ }^{3}$ " E. Long. $1_{7}, 25$. N. Lat. 4355 .

SCANHACAT1ON, in Surgery, the opetation of making feveral incifions in the flin bey rneans of lances or other inltzuments, parciculatiy the cupping inftrument. See Sukgery.

SCARLET, a beautiful bright red colour. See DyEing Inder.

In painting in water-colours, minium mixed with a lit:le vermilion produces a good farlet: but if a flower in a print is to be painted a cicarlet colour, the lights as well as the thades thould be covered with minium, and the fhaded farts finifhed with carmine, which will produce an admirable fcarlet.

Scafiet Fiver. See Medicine: Index.
SCARP, in Fortification, is the interior talus or nope of the ditel next the place, at the foot of the rampart.

Scarp, in Heraldry, the fcarf which military commanders wear for omment. It is borne fomewhat like a battoon finifter, but is broader than it, and is continued out to the edges of the field, whereas the battoun is cut off at each end.

SCARPANTO, an ifland of the Archicelago, and one of the Sporades, lying to the fouth-weft of the ifle of Rhodes, and to the north eaft of that of Candia. It. is about 22 miles in length atid 8 in breadlb; and there are feveral high mountains. It abounds in cattle ard game; and there are mines of iron, quarrics of marble, with feveral good harbours. 'I he Turks are mafters of it, but the inliabitants are Grecks.

SCARPE, a river of the Netherlands, which has its fource near Auligny in Artois, where it waftes Arras and Douay; afier which it runs on the confines of Flanders and Hainault, pafing by St Amand, and a little after falls into the Scheldt.

SCARRON, PAUL, a famous turlefque writer, was the fon of a counfellor in partiament, and was born at Paris about the end of the year 1610 , or in the beginning of the fucceeding year. His father marrying a fecond time, he was compelled to aftume the ecclefiaftical profeffion. At the age of $2 t$ be vifited Italy, where he fieely indulged in licentious pleafures. After his return to Paris he perfinted in a life of elifipation till a long and painful difeafe convinced him that his conttitution was almoft worn out. At length when engaged in a party of pleafure at the age of 27 , he loft the $u / e$ of thofe leas which danced fo gracefiully, and of thicfe hands which could paint and play on the lute with fo much elgance. In the year 1638 he was attending the carnival at Mons, of whicls he was a canon. Havirg dreffed himfelf one day as a favage, his fingular appearance excited the curiofity of the childeren of the tewn: I hey followed him in multitudes, ard he was obliged to take fhelter in a matf This wet and cold fituation produced a numbenes which totally deprived him of the ufe of his limbs; but notwithftanding this misforture he contirued gay and cheerful. He took up his refidence at Paris, and by his pleafant humour foon attracted to his houfe all the men of wit about the city. The lofs of his health was followed by the lofs of his fortune. On the death of his father he entered into a proceft

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Scaron. with his mother in law. He pleaded the caufe in a ludicrous manner, though his whole fortune depended on the decilion. He accordingly loft the caule. Mademaifelle de Hautefort, compafionating his misfortunes, procured for him an audience of the queen. The poet requetled to have the title of Viletudinarian to her majetty. The queen fmiled, and Scarron confidered the imile as the commiffion to his new office. He thercfore aflumed the title of Scarron, by the grace of God, unsuorthy valetuainarian to the queen.

Cardinal Mazarine gave hima penfion of 500 crowns; but that miniter having received dildainfully the de.ication of his Typhon, the poet immediately wrote a Mlaxarinade, and the penfon was withdrawn. He then attached himfelf to the prince of Condé, and celebrated his victories. He at length formed the extraordinary refolution of marrying, and was accordingly, in 1651 , married to Mademsifelle d'Aubigué (afterwards the frmous Madame de Maintenon), who was then only 16 years of age. "At that time (fays Voltaire) it was confidered as a great acquifition for her to gain for a hufbasd a man who was disfigured by nature, impotent, and very little enriched by fortune." When Scarroa was que timed about the contract of marriage, he laid he acknowledged to the brid= two large invincible eyes, a very beautulul flape, two fine hande, and a large par. tion of wit. The notary demanded what dowry he would give her? Immediately zedlied Scarron, "The names of the wives of kings die with them, but the nane of Scarron's wie thall live for ever." She reltrained by her modefty his indecent buffinoneries, and the good company which had formerly refonted to his houfe were not lefs frequent in their vifits. Scarron now became a new man. He became more decent in his manners and converfation: and his grae'y, when tempered with moderation, was fill more agreeable. Rut, in the mean time, he lived with fo little economy, that his income was foon reduced to a fimill anmuity and lis marquifate of $Q$ inet. By the merquifate of Quinet, he meant the revenue he derived from his nublications, which were printed by one Quinet. He was accuftomed to talk to his fuperiors with great frecdom in bis jorular Ayle. In the dedication to his Doy Japhet d'Armenic, he thus aidreffes the king. "I thall endeaverr to perfuade your majeftv, that you would do yourfelf no iniurv were you to dome a fmall favour; for in that cafe I fhould become more gay: if I fhould become more eay. I fhould write forightly comedies: and if I fhould write fprightly comedies, your majefty would be amu'ed, and thus your mancy would not be loit. All this anpears fo evident, that I firould certainlv be convinced of it if I were as great a king as I am now a poor unfortunate man."

Though Sc mron wrote comedies, ho had neither time nor patience to ftudy the rules and models of dramaric poetry. Ariloile and Horacc, Plantus and Terenec, would have frizhtenet him; and ocrhans he did not know that there was ever finth a nerfon as Aritorhanes. If faiv an oner oath hefare him, and he follorsed it. It was the fantion of the times to pillage the Spanith wricers. S"rmy was acquained the that languave, and he found it eafer to whe the materials which were alreatv -repared, than to rack his hrain in inventing a fubier ; a reftraint to which a genius like his could not eafily fubmit. As he borrowed liberally

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from the Spaniin w:ite:s, a dramatic piece did wot con Scamen him much labour. His labour confuled not in making his comic characters tatk himmoroully, but in keepngy up ferious characters; for the verious was a foreign language to him. 'The great luccels of his Jodele' Minitre was a valt allurement to him. The comedians who acted it eagerly reciuelted more of his productions. Thicy were written without much toil, and they procured bim large fums. They ferved to amule hmm. If it be neceflary to give more reatons for Scarrou's readinefs to engage in thele worke, abundatice may be had. He dedicated his books to his fitlcr's greyi:ound bitch; and when the failed him, he dedicated them to a certain Monfeigneur, whom be prailed higher, but did not much etteem. When the olfice of hillotiographer became vacant, he folicited for it without fuccefs. At lengit Fouquet gave him a peufin of 1602 livres. Chrilina queen it sweden having come to Par.s, was anxious to tee scarront. "I pemit you (faid fhe to Scarron) to fail in ove with me. The quect of Ftance has made you ber idetudinarian, and I create you my Roland." Scarron did not long etijoy that title: lie was leiz:d with fo violent a hiccongh, that every pel on thought he wonld have expired. "Il I recuver (he faid), I will make a fine latie on the hiccough." His gaiety did not forlake him to the lalt. Wituin a tow minutes of his death, when his dumeftics were findoing tears about him, "My good friends (hays he), 1 thall never make you weep to much for me us I have made. you laugh." Jult before expiring, he fid, " 1 could never belicve before that it is fo eafy to laugin at dea.h." He died on the 14 ha of October 1660 , in the 51 th year of his age.

His works have been colle Eted and publilied by Bruzen de la Martiniere, in to vols $12 \mathrm{mu}, 1737$. Whete are, i. The Eneid traveliied, in 8 bouk . It was afterwards continue 3 by Moreau de Brafey. 2. Tisfon, or the Gizantomachin. 3. Many comedies; a, Judelet, or the Nialler Valet; Iodelet cuffed; Don dapliet a'Armenie; The Ruaculous Heir; Every Man his nwn Guardian; The Fool ih Marguis; Ihe Scholar of Salamancs; The Falle Appenalice; The Prince Corfaire, a tragi-comedy. Befides thele, He wrote other pieces in verfe. 4. His Comic humance in proie, whach is the only one of his works that delerves ationtion. It is written wih much purity and gaiety, and bas contributed not a little to the improvenient of the French language. Scarron had great nleafure in reading his works to his friends as he compoied them: he callud it using his works. Segrais and another of lis friends cuming to him one duy, "Tako a chair (fays Suarron to them) and fit down, that I myy cramine my Cumac Remance." When he oblerved the com,any luush, "Very well (faid he), my book will be well 1c ited fince it makes pe-fons of fuch delicaie t.tle lau h." Nor was he cicceived. His Romance had a prodipiou" run. It wiss the oaly one of his norks it it Bollau could tismit to read. 5. Smanila N wels tran:lied tho Drwich 6.A volume of Letters 7. Pocm ; comiliting of sungs, I:piftes, Sia"zas, O lec, and lepgrams. The whice collection abounds wath fri helindis and gaiety. Sosron. can saife a 1 ugh in the moil friuns fubjects; but his fallies are rath ithot of a buffoon than the effufions of ingeruity and tafe. He is coatinually falling into the mean and tha obfecne. If we fhould make any execp-

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Starron tion in favour of fome of his comedies, of fome paffages in his Eneid traveftied, and his Comic Romance, we muft acknowledge that all the reft of his works are only fit to be read by footmen and buffoons. It has been faid that he was the moft eminent man in his age for burlefque. This might make him an agreeable companion to thofe who choofe to laugh away their timc; but as he has left nothing that can inftruct pufterity, he has but little title to pofthumous fame.

SCENE, in its primary fenfe, denoted a theatre, or the place where dramatic pieces and other public fhows were exhibited ; for it does not appear that the ancient poets were at all acquainted with the modern way of changing the fcenes in the different parts of the play, in order to raife the idea of the pertons reprefented by the actors being in different places.

The original fcene for acting of plavs was as fimple as the reprefentations themfelves : it confifted only of a plain plot of ground proper for the occafion, which was in fome degree fhaded by the neighbouring trees, whole branches were made to meet together, and their vacancies fupplied with boards, fticks, and the like; and to complete the fhelter, thefe were fometimes covered with $\mathbb{f k i n s}$, and fometimes with only the branches of other trees newly cut down, and full of leaves. Afterwards more artificial fcenes, or fcenical reprefentations, were introduced, and paintings ufed inftead of the objects themfelves. Scenes uere then of three forts; tragic, comic, and fatiric. The tragic fcene reprefented ftately magnificent edifices, with decorations of pillars, flatues, and other things fuitable to the palaces of kings : the comic exhibited private houles with balconies and windows, in imitation of common buildings: and the fatiric was the reprefentation of groves, mountains, dens, and other rural appearances; and thefe decorations either turned on pivots, or flid along grooves as thofe in our theatres.

To keep clofe to nature and probability, the fcene fhould never be fhifted from place to place in the courfe of the play: the ancients were pretty fevere in this refpect, particularly Terence, in fome of whofe plays the fcene never fhifts at all, but the whole is tranfacted at the door of fome old man's houfe, whither with inimitable art he occafionally brings the actors. The French are pretty ftrict with refpect to this rule; but the Englifh pay very little regard to it.

Scene is alfo a part or divifion of a dramatic poem. Thus plays are divided into acts, and acts are again fubdivided into fcenes; in which fenfe the fcene is properly the perfons prefent at or concerned in the action on the flage at fuch a time : whenever, therefore, a new actor appears, or an old one difappears, the action is changed into other hands; and therefore a new fcene then commences.

It is one of the laws of the flage, that the fcenes be well connected ; that is, that one fucceed another in fuch a manner as that the flage be never quite empty till the end of the act. See Poetry.

SCENOGRAPHY, (from the Greek, oxnm fcene, and $r_{g^{\alpha} \varphi_{n}}$ defcription), in perfpective, a reprefentation of a body on a perfpective plane; or a defcription thereof in all its dimenfions, fuch as it appears to the eye. See Perspective.
 look about, or deliterate," properly fignifies confidera-
tive and inquifitive, or one who is always weighing reafons on one fide and the other, without ever deciding between them. It is chiefly applied to an ancient fect of philofophers founded by Pyrrho (fee Pyrrho), who, according to Laertius, had various other denominations. From their matier they were called Pyrrhomians; from the diftinguifhing tenets or characteriftic of their philofophy they derived the name of Aporetici, from $\alpha \pi$ ogiu, " to doubt;" from their fufpenfion and hefitation they were called sphectici, from $\varepsilon \pi s z^{5 s}$, " to flay or keep back :" and laltly, they were called zetecici or feekers, from their never getting beyond the fearch of truth.

That the fceptical philofophy is abfurd, can admit of no difpute in the prefent age ; and that many of the followers of Pyrrho carried it to the moft tidiculous height, is no lefs true. But we cannot believe that he himfelf was fo extravagantly fceptical as has fometimes been afferted, when we reflect on the particulars of his life, which are ftill preferved, and the refpectful manner in which we find him mentioned by his contemporaries and writers of the firft name who flourifhed foon after him. The truth, as far as at this diffance of time it can be difcovered, feems to be, that he learned from Democritus to deny the real exiftence of all qualities in bodies, except thofe which are effential to primary atoms, and that he referred every thing elfe to the perceptions of the mind produced by external objects, in other words, to appearance and opinion. All knowledge of courfe appeared to him to depend on the fallacious report of the fenfes, and confequently to be uncertain; and in this notion he was confirmed by the general firit of the Eleatic fchool in which he was educated. He was further confirmed in his fcepticifm by the fubtilties of the Dialectic fchools, in which he had been inftructed by the fon of Stilpo; choofing to overturn the cavils of fophiftry by recurring to the doctrine of univerfal uncertainty, and thus breaking the knot which he could not unloofe. For being naturally and habitually inclined to confider immoveable tranquillity as the great end of all philofophy, be was eafily led to defpife the diffenfions of the dogmatifts, and to infer from their endlefs difputes, the uncertainty of the queftions on which they debated ; controverfy, as it has often happened to others, becoming alfo with refpect to him the parent of fcepticifm.

Pyrrho's doctrines, however new and extraordinary, were not totally difregarded. He was attended by feveral fcholars, and fucceeded by feveral followers, who preferved the memory of his notions. The moft eminent of his followers was Timon (fee Timon), in whom the public fucceffion of profeffors in the Pyrrhonic fchool terminated. In the time of Cicero it was almoft extinct, having fuffered much from the jealoufy of the dogmatitts, and from a natural averfion in the human mind to acknowledge total ignorance, or to be left in abfolute darknefs. The difciples of Timon, however, ftill continued to profefs fcepticifm, and their notions were embraced privately at leafl by many others. The fchool itfelf was afterwards revived by Ptolzmeus a Cyrenian, and was continued by $\bar{A}$ nefidemus a contemporary of $\mathrm{Ci}_{-}$ cero, who wrote a treatife on the principles of the Pyrrhonic philofophy, the heads of which are preferved by Photius. From this time it was continued through a feries of preceptors of little note to Sextus Empiricus, who alfo gave a fummary of the feeptical doctrine.

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Sceptic. A fyftem of philofophy thus founded on doubt, and clouded with uncertainty, could neither teach tenets of any importance, nor prefcribe a certain rule of conduct; and accordingly we find that the full wers of feeptic m were guided entirely by chance. As they could form no certain judgement refpecting good ant evil, they accidentally learned the folly of ea erly puri ing any apparent good, or of avoiding any apparent evil; and their minds of courfe fettled into a tlate of undizurbed traiquillity, the grand poftulatum of their fyhem.

In the fchools of the feeptics we find ten difinct topies of argument urged in fupport of the doctane of uncertainty, with this precaution, however, that nothing could be poftively afferted either concerning their number or their force. Thefe arsuments chiefly refpect objects of fenfe: they place all knowledge in appearance; and, as the fame things appear very different to different people, it is imponible to fay which appearance moft truly exprefles their real nature. They likewile fay, that our judgement is liable to uncertainty from the circumftance of frequent or rave occurrence, and that mankind are continually led into diff-rent conceptions concerning the fame thing by means of cultom, law, fabulous tales, and etfablithed opinions. On all thefe accounts they think every human judgement is liable to uncertainty; and concerning any thing they can only aflert, that it feems to be, not that it is what it feums.

This doubtful reafoning, if reafoning it may be called, the fceptics extended to all the fciences, in which they difcovered nothing true, or which could be ablolutely afferied. In all nature, in phyfics, morals, and theology, they found ontradictory opinions, and inexplicable or incomprehenfil le $p^{1}$ enonena. In phyfics, the appearances they thought mig'tt be deceitful; and refpecting the nature of God and the duties of morality, men were, in their opinion, equally ignorant and uncertain. To overturn the fo-hiltical arguments of thele fecptical reafoners would be no dificult matter, if their reafoning were worthy of confutation. Indeed, their great principle is lufficiently, though fortly refuted by Plato, in theie words. "When you fay all thinjs are incomprehenfible (Gays he), do you comprehend or conceive that they are thus incomprehenfible, or do you not? If you do, then fomething is comprehenfible; if you do not, there is no reafon we thuuld believe you, fince you do not comprchend your own affexion."

But fcepticifm has not been confined entirely to the ancients and to the followers of Pyrrho. Numerous fie ptics have arifen alio in modern tinies, varying in their principles, manners, and character, as chance, prejudice, vanity, weaknefs, or indolence, prompted them. The great obiect, however, which they feem to have in view, is to overturn, or at leaft to weaken, the evidence of analogy, experience, and teftimony: though fome of them have even attempled to fhow, that the axioms of geometry are uncertain, and its demonftrations incelsclafive. Th's lat atwmpt has not indeed been ofien made; but the clief aim of Mr Hume's pliloropit al writings is 10 introduce doats into every brast? of pluffes, melapluffics, lifiory, cili $\dot{R}$, and the 16 is ncediets to give a fpecimen of bis reafonings in fimyort
 Vot. XVIII. Pat II.
been nciicud cliewhere (fie Miracle, Mefa:lizsics, and Philosophy, $\mathrm{N}^{\mathrm{O}}+1$.); and fuch of our rea. ders as hive any xelifh for (pectil tions of that notere can be no ilren gers to $H$ is I.fliys, or to the al le co fut tion of them by tie D. ctors Kicil, Cam, bell, Gre cry, and Be:tlic, who have likewife expofed $t h$ wean is of the feretical ierlorings of I)es Cartes, Mallora die, and other philofophers of great fime in the fame fchool.

SCEPTICISM, the doctrints and opinions of the fceptics. See the preceding article.

SCEPLRE, a kind of royal ftaff, or batoon, bune on folemn occafions by kings, as a bad e of their cumamand and authority. Nicod derives the word ion the G:eek oxnargor, which he Cays origi ally fignifes " a javelin," which the ancient kings ufually bore os a badge of their authority; that influment being is very great veneration amons the heathens. But oxantroov does not properly fignify a javelin, but a faff to rof tup. on, from arn la, innitor, "I lem upon." Accordingly, in the fimplicity of the earlier ages of the world, the fceptres of kings were no other than long walking-dtaves: and Ovid, in ipeaking of Jupiter, defcribes him as refting on his fceptre (Met. i. ver. 1-8.) The fceptre is an enfign of royalty of greater antiquity than the cr-mn. The Grecti tragic and other poets put fceptres in the hands of the not ancient kings they ever introduce. Jutlin obferves, that the feeptre, in its original, was a Mafla, or fpear. He adds, that, in the moit remote antiquity, men adured the hafle or feepires as immortal gods; and that it was upon this account, that, evea in his time, they fliil furnibed the gods with fueptres.Neptune's fceptre is his trident. Tarquin the Elder was the firit who affumed the feeptre among the Remans. Le Gendre tells uc, that, in the fint race of the French kings, the feeptre was a golden rod, almoft always of the fame height with the king who bore it, and crooked at one end like a crozier. Freguently inflead of a feeptre, kings are feen on medals with a palm in their hand. See REcialla.
SCH.EFFERA, a genus of plants belonging to the dicecia clafs; and in the natural method ranking with thofe that are doubtful. See Botany Index.

SCH IFFFI AUSEN, the fmalleft canton of Switzerlawd, bounded on the north and weit by Suabia, on the eaft by the canton of Zurich and the bifhopric of Conftince, and on the fouth by the fame and Thurgau. It is about 15 miles long and 9 broad, and its population amounts to about 30,000 . Its revenues are not extenfive, as one proof of which the burgomafter or chief has not more than 1501 . a vear. The reformation was introduced before the middle of the 16 th century. Tlie clergy are paid by the tlate, the hi heif incomes not exceeding 1051 ., and the lomit +101 . annually. Sumptunry law's are in force, as well as in moft other parts of Svizerland; and no dancing is allowed except on very particular occafionc. Wine is their chief article of commerce, which they exclange with suabia for corn, as t is canton produces very little of that neceffary article.

SCII.1FIII IUSEN, a toen of Switzerland, the metron ", of a canton of the fame n.me. It is fated on he If in a downes its origin to the intermup ion of the I vigari of that river ly the cataract it Lauff i. It was at cne erict il imperial town, and admitted a
member

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Sol.nflan- member of the Melvetic confederacy in 1501 ; and its terntory forms the 12 th canton in point of rank. The inl-bitants of this town are computed at $6=00$, but the number of cilizens or burgeffes is about 1600 . From thefe were elected $S_{5}$ members, who formed the great and litice council; the fenate, or little council of 25 , being entrufted with the executive power; and the great council finally deciding all appeals, and regulating the more imnortant concerns of government. Though a frontier twon, it has no garrifon, and the fortifications are weak; but it once had a famous wooden bridge over the liline, the work of one Ulric Grubenman, a carpenter. The fides and top of it were covered; and it was a kind of hanging bridge; the road was nearly level, and not carritd as ufual, over the top of the arch, but let into the middle of it, and there fufpended. This curious bridge was burnt by the French, when they evacuated Schafi haufen, after being defeated by the Auftrians, April 13. 1799. Schaffhaufen is 22 miles north by eaft of Zurich, and 39 eaft of Bafil. Long. $3^{\circ} \cdot 4^{\prime} \mathrm{E}$. Lat. $47^{\circ} \cdot 39^{\prime} \mathrm{N}$.

SCHALBEA, a genus of plants belonging to the didynamia clafs. See Botany Inder.

SCHEDULE, a fcroll of paper or parchment, annexed to a will, leafe, or other deed; containing an inventory of goods, or fome other matter omitted in the body of the deed.-The word is a diminutive of the Latin fcheda, or Greek $\sigma / /^{\mathrm{j}} \mathrm{D}$, a leaf or piece of paper.

SCHEELE, Charles William, was born on the 19th of December 1712, at Stralfund, where his father kept a flop. When he was very young, he received the ufual inftructions of a private fchool; and was afterwards advanced to an academy. At a very early age he thewed a ftrong defire to follow the profellion of an apothecary, and his father fuffered him to gratify his inclinations. With Mr Bauch, an apothecary at Gottenburg, he pafied his apprenticeflip, which was completed in fix years. He remained, however, fome time longer at that place, and it was there that he fo excellently laid the firft foundations of his knowledge. Among the various books which he read, that treated of chemical fubjects, Kunckel's Laboratory feems to have been lis favourite. He ufed to repeat many of the experiments contained in that work privately in the night, when the reft of the family had retired to reft. A friend of Scheele's had remarked the progrefs which he had made in chemiftry, and had afked him by what inducements he had been at firf led to ftudy a fcience in which he had gained fuch knowledge? Scheele returned the following anfwer: "The firf caufe, my friend, arofe from yourfelf. Nearly at the beginning of my apprentice fhip you advifed me to read Neuman's Chemiftry; from the perufal of which I became eager to make experiments myfelf; and I remember very well how I mixed together, in a conferve-glafs, oil of cloves and fuming acid of nitre, which immediately took fire. I fee allo fill before my eyes an unlucky fixperiment which I made with pyrophorus. Circumflances of this kind did but the more inflame mv defire to repeat experiments." Afier Scheele's departure
from Gottenburg, in the year $1-65$, he obtained a place scheele. with Kalftrom, an apothecary at Malmo. Two years $\underbrace{\text { Sceele, }}$ afterwards he went from thence to Stockholm, and managed the thop of Mr Scharenberg. In 1773 , he clanged this appointment for another at Upfal, under Mr Loock. Here he was fortunately fituated; as, from his acquaintance with learned men, and from having free accefs to the univerfity laboratory, he had opportunitics of increafing his knowledge. At this place allo he happily commenced the friendhip which fubfifed between him and Bergman. During his refidence at this place, his Royal Highnefs Prince Henry of Pruflia, accompanied by the Duke of Sudermania, vifited Upfal, and chofe this opportunity to fee the academical laboratory. Scheele was accordingly appointed by the univerfity to exhibit fome chemical experiments to them. This office he undertook, and fhewed fome of the moft curious proceffes in chemiftry. The two princes akked him many queftions, and expreffed their approbation of the anfwers which he returned to them. The duke afked him what countryman he was, and feemed to be much pleafed when Scheele informed him that he was born at Stralfund. At their departure they told the profeffor, who was prefent, that they fhould efteem it a favour if he would permit the young man to have free accefs to the laboratory, as often as he chofe, to make experiments.

In the year ${ }^{1} 777$ Scheele was appointed by the Medical College to be apothecary at Koping. It was at that place that he foon thewed the world how great a man he was, and that no place or fituation could confine his abilities. When he was at Stockholm he fhewed his acutenefs as a chemift, as he difcovered there the new and wonderful acid contained in the fluor fpar. It has been confidently afferted, that Scheele was the firft who difcovered the nature of the aerial acid; and that whilft he was at Upfal he made many experiments to prove its properties. This circumftance might probably have furnifhed Bergman with the means of treating this fubject more fully. At the fame place he began the feries of excellent experiments on that remarkable mineral fubfiance, manganefe; from which inveftigation he was led to make the very valuable and interelling difcovery of oxymuriatic acid At the fame time he examined the properties of ponderous earth.

At Koping he finifhed his differtation on Air and Fire; a work which the celebrated Bergman moft warmly recommended in the friendly preface which he wrote for it. The theory which Scheele endeavours to prove in this treatife is, that fire confifts of pure air and phlogifton. According to more recent opinions (if inflammable air be phlogifton), water is compofed of thefe two principles. Of thefe opinions we may fay, in the words of Cicero, "Opiniones tam varice funt tarnque inter fe diffidentes ut alterum profocto fieri poteft, ut carum nulla, alterum certe, non poteft ut plus una, vera fit." The author's merit in this work, exclufive of the encomiums of Bergman, was fufficient to obtain the approbation of the public; as the ingemuity difplayed in treating fo delicate a fubject, and the many new and valuable obfervations (A) which are difperfed through the treatife,

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Scheele. juftly cutitled the author to that fame which his book procured him. It was fpread abroad through every country, became foon out of print, was reprinted, and tranflated into many languages. The Englifh tranflation is enriched with the notes of that accurate and truly philefophic genius Ricbard Kirwan, Efq.

Schecle now diligently employed himfelf in contributing to the Tranfactions of the Academy at Stockholns. He firlt pointed out a new way to prepare the firlt of benzoin. In the fame year he difcovered that arfenic, freed in a particular manner from phlogiton, partakes of all the properties of an acid, and has its peculiar atlinitics to other fubflances.

In a Difertation on Flint, Clay, and Nlum, he clearly overturned Beaumés opinion of the identity of the filiceous and argillaceous earths. He publifhed an Analyfis of the Human Calculus. He fhewed alfo a mode of preparing mercurius ducis in the humid way, and improved the procefs of making the powder of A1garoth. He analyfed the mineral fubfance called molybdena, or flexible black lead. He difcovered a beautiful green pigment. He fherwed us how to decompofe the air of the atmofpbere. He difcovered that fome neutral falts are decompofed by lime and iron. He decompofed plumbago, or the common black lead. He obferved, with peculiar ingenuity, an acid in milk, which decompofes acetated alkali; and in his experiments on the fugar of milk, he difoovered another acid, different in fome refpects from the above-mentioned acid and the common acid of fugar. He accomplithed the decompofition of tungften, the component parts of which were before unknown, and found in it a peenliar metallic acid united to lime. He publifhed an excellent differtation on the different forts of ether. He found out an ealy way to preferve vinegar for many years. His invelligation of the colouring matter in Prulian blue, the means he employed to feparate it, and his difcovery that alkali, fal anmoriac, and charcoal, mixed together, will produce it, are ftrong marks of his penetration and genius. He found out a peculiar fweet matter in expreffed oils, after they have been boiled with litharge and water. He fhewed how the acid of lemons may be obtained in cryftals. He found the white powder in rhubarb, which Model thought to be felenite, and which amounts to one-ferenth of the weight of the root, to be calcareous earth, united to the acid of forrel. This fuggefted to him the examination of the acid of forrel. He precipitated acetate of lead with it, and decompofed the precipitate thus obtained by the vitriolic acid, and by this procefs he obtained the common acid of fugar; and by flowly dropping a folution of fixed alkali into a folution of the acid of fugar, he regencrated the acid of forrel.-From his examination of the acids contained in fruits and berries, he found not one fpecies of acid alone, viz. the acid of lemon, but another alfo, which he denominated the mala-
ceous or malic acid, from its being found in the greateft Scheele. quantity in apples.

By the decompofition of Bergman's new metal (fiderite) he Aiewed the truth of Meyer's and Klaproth's conjecture concerning it. He boiled the cals of fidcrite with alkali of tartar, and precipitated nitrate of mercury by the middle falt which he obtained by this operation; the calx of mercury which was precipitated was found to be united to the acid of photphorus; fo that he demonflrates that this calx was phofphorated iron. He fuund alfo, that the native Pruflian blue contained the fame acid. He difcovered by the fame means, that the perlate acid, as it was called, was not an acid fui generis, but the phof horic united to a mall quantity of the mineral alkali. He fuggefted an improvement in the procels for obtaining magnelia from Epfors falt; he advifes the adding of an equal weight of common falt to the Epfom lalt, fo that an equal weight of Glauber's falt may be obtained; but this will not lucceed unlefs in the cold of winter. Thefe are the valuable difcoveries of this great philofopher, which are to found in the Tranfactions of the Royal Socicty at Stuckholm. Moft of his effays have been publithed in French by Madame Picardet, and Monf. Norveau of Dijon. Dr Beddoes alfo has made a very valuable prefent to his countrymen of an Englih tianflation of a greater part of Scheele's differtations, to which be has added fome ufeful and ingenious notes. The following difcoveries of Scheele are not, we believe, publified with the reft. He ftewed what that fubftance is, which has been generally called 'the earth of the fluor fpar.' It is not produced unlefs the fluor acid meet with filiceous earth. It appears from Scheele's experiments to be a tuiple falt, confilting of flint, acid of fluor, and fixed alkali. Scheele proved alfo, that the fluor acid may be produced without any addition of the vitriolic or any mineral acid: the fluor is melted with fixed alkali, and the fluorated alkali is decompofed by acetated lead. If the precipitate be mixed with charcoal duft, and expofed in a retort to a ftrong heat, the lead will be revived, and the acid of fluor, which was united to it, will pals into the receiver poffeffed of all its ufual properties. This feems to be an ingenious and unanfwerable proof of its exiflence.

He obferved, that no pyrophorus can be made unlefs an alkali be prefent; and the reafon why it can be prepared from alum and coal is, that the common alum always contains a little alkali, which is added in order to make it cryftallize; for if this be feparated from it, no pyrophorus can be procured from it. His laft differtation was his very viluable obfervations on the acid of the gall-nut. Ehrhart, one of Scheele's moll intimate friends, afferts, that he was the difcoverer of both of the acids of fugar and tartar. We are alfo indebted to him for that mafterpiece of chemical decompofition, the feparation of the acid of phofphorus from bones. This ap-

Turner, a gentlemen who happily unites the fkill of the manufacturer with the knowledge of the philofophic chemint, has alfo the merit of this dicovery, as he obferved the fame fact, without having been indebted to Scheele's hint on the fubject. Mr Turner has done more; he has converted this difcovery to fome ufe in the arts; he produces mineral alkali for fale, arifing from the decompofition ; and from the lead which is united to the marine acid he forms the beautiful pigment called the patent yellow.

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pew, from .. keter which Scheele wrote to Gahn, who h-s yenerally thad the reputation of this great difcovery. This acid, wh ich is fo curious in the eye of the chemitt, begins to draw the attention of the phyfician. It was firt ufed in medicine, united to the mineral alkali, by the ingenious Dr Pearfon. The value of this addition to the materia medica cannot be betier evinced than from the increafe of the demand for it, and the quantity of it which is now prepared and fold in London.

We may ftamp the character of Schecle as a philofopher from his many and important difcoveries. What concerns him as a man we are informed of by his friends, who affirm, that his moral character was irreproachable. From his outward appearance, you would not at fiff fight have judged him to be a man of extraordinary bilities; but there was a quicknefs in his eye, which, to an accurate oblerver, would point out the penetration of his mind, He mixed but little with the crowd of common acquaintance; for this he had neither time for inclination, as, when his profeffion permitted him, he was for the moft part employed in his experimental in quiries. But he had a foul for friendhhip; nor could even his philofophical purfuits withhold him from truly enjoying the focieiy of thofe whom he could efteem and love. Before he adopted any opinion, or a particular theory, be confidered it with the greateft attention; but When once his fentiments were fixed, he adhered to them, and defendud them with refolution. Not but that he was ingenu us enough to fuffer himfelf to be convinced by wighty objections; as he has thewn that he was open to conriction.

His chemical apparatus was neither neat nor conwurient; his laboratory was fmall and confined; nor was he particulas in regard to the veffels which he employed in his experiments, as often the firt phial which came to hand was placed in his fand-heat: fo that we may jufly wonder how fuch difooverics, and fuch elesunt experiments, o uld have bien made under fuch unfavourable circumflances. He underftood none of the modern languages except the German and Swedill ; fo that he had not the adrantage of being benefited by the carly i: telligence of difcoveries made by foreigners, but was forced to wait till the intelligence was conveyed to him in the flow and uncertain clazanel of tranflution. The inportant fervices which Scheele did to natural philofophy entitled him to univerfal reputation; and he obtained it: his name was well known by all Europe, and he was member of feveral learned academies and plilofophical fociet ics.

It was often wihel that he would quit his retirement 4: Koping, and move in a larger fphere. It was fuggeted to nim, that a place might be procured in England, wich misht affurd him a good income and more leffare; and, ind ed, latterly an offer was made to lim of an anouity of $3=01$. if he would fettle in this country. But death, alas! put an end to this project. F, or halfa year before this melancholy event, his health had been declising, and lie himfelf was fenfis le that he wa'd $n$ trec.e.e. On the 1 gth of May 1786 , he was confined to his bed; on the 21 th he bequeathod all of which he wis poff if d to his wife wloo wa- the widory of his predou $T \mathrm{r}$ at K ping, and whom he had lately married) ; and on $t$. f.are d $y$ he departed this life. So the world 1 d , in le . Thin tio ye ts, Bergman and Schecie, of whon whe. may july boda; tio philo-
fophers, who were beloved and lamented by all their Schemer contemporaries, and whofe memory polterity will never ceafe moit gratefully to revere.

SCHEINER, Christopher, a German mathematician, attronomer, and Jefuit, eminent for being the firft who difcovered fpots on the liun, was born at Schwaben in the territory of Maddleheim in 1575 . He firft difcovered fpots on the fun's difk in 1611, and made obfervations on thefe phenomena at Rome, until at length reducing them to order, he publifhed them in one vol. folio in 1630 . He wrote allo tome fimaller things relating to mathematics and philofophy ; and died in 1690.

SCHEL.D, a river which rifes on the confines of Pi cardy, and runs north-ealt by Cambray, Valenciennes, Tournay, Oudenarde, \&cc. and receiving the Lis at Ghent, runs eaft by Dendermond, and then north to Antwelp: below which city it divides into two branches, one called the $W_{\ell}$ fler-Scheld, which feparates Flanders from Zealand, and difcharges itfelf into the fea near Fluflhing; and the other called the Ofler Schald, which runs by Bergen-op-zoom, and af erwards between the itlands Beveland and Schowen, and a little below falls in the fea.

SCHEME, a draught or reprefentation of any geometrical or allronomical figure, or problem, by lines fenfible to the eye; or of the celeftial bodies in their proper places for any moment; otherwife called a dia-gram.

SCHEMNITZ, a town of Upper Hungary, with three cattles. It is famous for mines of filver and other metals, as alfo for hot baths. Near it is a rock of a fhining blue colour mixed with green, and fome fpots ofycllow. E. Long. 19. o. N. Lat. 48. 40.

SCHERARDIA, a genus of plants belonging to the tetrandria clafs. See Botany Index.

SChetland. See Shetland.
SCHEUCHZERIA, a genus of plants belonging to the hexandria clais; and in the natural method ranking under the fifth order, Tripelatoidec. See Botany $1 h^{-}$ dov.

SCHIECHS, or SCHECR, among the Arabs, is a name applied to their nobles. "Anıong the Bedouins," fays Niebuhr, " it belongs to every noble, whether of the higheft or the loweft order. Their nobles are very numerous, and compofe in a manner the whole nation; the plebeians are invariably actuated and guided by the fchicchs, who fuperintend and direct in every tranfaction. The fchiechs and their fubjects, are born to the life of fhepherds and foldiers. The greater tribcs rear many camels, which they either fell to their neighbours, or employ them in the carriage of goods, or in military expeditions. The petly tribes keep Hlocks of flicep. Ameng thole tiibes which apply to agriculture, the fchiechs live always in tents, and leave the culture of their grounds to their fuljects, whole dwellings are wrotched huts. Scliechs always ride on horfes or dromedaries, infpeling the conduct of their fubjects, vifiting their friends, or bunting. I'raverfing the defert, where the hovizon is wide as on the ocean, they perceive travellers at a diflance. As travellers are feldom to be met with in thofe wild tracte, they cafily cilcover fuch as pafs that way, and are tempted to pilla:e them when they find their own party the flronge l."

SCHINUS, a genus of plants belongif to the dioccia

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 clafs; and in the natural mathod ranking under the 43 d order, Dum 'ie. See Botany Index.SCHIR $\dot{S}$, or Schrrauz, a large and famous town of Perfia, capital of Farlitan, is three miles in length from ealt to well, but not fo much in breadth. It is leated at the north-weft end of a Spacious plain furrounded with very ligh hills, under one of which the town flands. The houles are built of bricks dried in the fun; the roofs are flat and terraced. There are 15 handfome mofques, tiled with ttones of a bluith green colour, and lined within with black polihed marble. T here are many large and beautiful gardens, furrounded with walls fourteen feet high, and four thick. They contain various kinds of very fine trees, with fruits almolt of every kind, befides various beautiful flowers. The wines of Schiras are not only the bett in Perfia, but, as fome think, in the whole world. The women are much addicted to gallantry, and Schiras is called an earthly paradife by fome. The ruins of the famous Perfepolis are 30 miles to the north-eaft of this place. E. Long. 56.0. N. Lat. 29. $3^{6}$.

SCHIS.II, (from the Greek, $\sigma$ \%rous, clift, filfire), in its general acceptation fignifies divijion, or feparation; but is chiefly ufed in \{peaking of Ceparations happening from diverlity of opinions among people of the fame religion and faith.

Thus we fay the fohifm of the ten tribes of Judah and Benjamin, the fchifm of the Perfians from the Turks and other Mahometans, \&\&c.

Among ecclefiaftical authors, the great fchifm of the Weft is that which happened in the times of Clement VII. and UTban VI. which divided the church for 40 or 50 years, and was at length ended by the election of Martin V. at the council of Conifance.

The Romanitts number 34 fehifms in their church. - They beftuw the name Engli/B fclifin on the reformation of religion in this kingdom. Thofe of the church of England apply the term fchifm to the feparation of the nonconformits, viz. the pretbyterians, independents, and anabaptifts, for a further reformation.

SCHISIUS, in Mincralogy, a nome given to feveral kinds of ftones, as argillaceous, filiceoas, bituminous, fchitus, Ezc. See Mineralogy Index.

SCHMIEDELIA, a genus of p?ants belonging to the of undria clafs. See Botiny Index.

SCHOENOBATES, (from the Greck, \%\%orras, a rope; and $\xi_{x} \times \omega, I$ waik, a name which the Grecks gave to their rope-dance:s : by the Romans called fuxambuli. See Rope-davcler and Funinbetris.

The folionobates were flaves whofe maters made money of them, by entertaining the people with their feats of activity. Mercurialis de arte gymmaflica, lib. iii. gives us five fiorures of fchenolates engraven after ancient fozes.

SCH: )ENUS, a genus of plants belonging to the triandria clafs; and in the natural method ranking under the ad order, Calomaria. Sue Botavy Index.
$\mathrm{SCHOLA} ; 1 \mathrm{IC}$, fomething belonging to the fchools. See Scmont.

SCHOLTSTIC D Winvi, is that nort or fecies of divinity which $c$ ars ted then s qualions be re fon and ar-

 t) rity of i..t' \&ss, conicils, \&ic. Tise $[-0 \mathrm{l}$-divinity
is nors fallen into contempt; and is featce reer rdod any. Sc... .ift where but in fome of the univerfities, where they are itill by their charters obliged to teach it.

SCHOLlAS'l, or Comalistator, a grammarian Who writes /cholia, that is, notes, gloffes, \&c. upon ancient authors who have written in the learned languages. See the next article.
¿CHOLIUM, a note, annotation, or remark, occafionally made on firme paflage, propulition, or the like. This term is much ufed in geometry and other parts of mathematics, wherc, after demonilrating a propofition, it is cuftomary to point out how it might be done fume other way, or to give fome advice or precaution in otder to prevent miftakes, or add tome palticular ufe or application thereof.

SCHOMBERG, Frederick-Aramand duke of, a dittinguithed officer, fprung from an illuttrious family in Germany, and the fon of Count Schomberg by an Englihh lady, daughter of Lord Dudley, was born in 1608. He was initiated into the military life under Fre. derick Henry prince of Orange, and afterwards ferved erder his fon William II. of Orange, who highly effeemed him. He then repaired to the court of France, where his reputation was fo well known, that he obtained the government of Gravelines, of Furses, and the furrounding countries. He was reckoned infirior to no general in that kingdom except Marefchal Tutenne and the Prince of Concé ; men of fuch cxalted eminence that it wds no difgrace to acknouledge their fuperiority. The French court thinking it neccflary to diminith the power of Spain, fent Schomberg to the affillance of the Portugucle, who were engaged in a war with that country refpecting the fucceffion to their throne.-Schomberg's military talents gave a turn to the war in favour of his allies. The coutt of Spain was obliged to folicit for peace in 1668, and to acknowledge the houfe of Bragu za as the juft heirs to the throne of Portugal. For his great fervices he was created Cuunt Mentola in Portugal; and a penfion of 50001 . Was beftowed upon him, with the reverfion to his heirs.

In 1673 he came over to England to command the army; but the Engliih at that time being difgufled with the French nation, Schomberg was fufpected of coming over with a defign to corrupte the army, and brin, $\hat{i}$ under French dikipline. He therefore found it nicefliry to ruturn to France, which he foon left, and vent to the Netherlands. In the month of June 1676 , be forced the prince of Orange to raife the fiege of Maellricht; and it is faid he was then railed to thic tark of Marefchal of France. But the French Di7ionaire II , que, whofe information on a point of this nature ought to be nuthentic, fays, that he was invelted with this honour the tame year in which he took the fortrefs of Bellugarde from the $S_{\Gamma}$ iniards while lerving in Portug-l.

Upon the revocation of the ediat of N.ntes, when the perl cution commer ced agyinft the Prote' nts, Shr mberg, who was of that perluafion, requefted leave to retir it.to his own country. This requelt wis refufid; but he was permitted to take refuge in Purtugal, where he hal reafon to expet he would be kindly re-c-ivel oni rount of patt fenviecs. Dat the relifioss
 from ac $c_{L}$ ting alivatice from a heretic vilaen $t$ is

Bifhop Burnet fays, Schomberg was " a calm man, Schomberg, of great application and conduct, and thought much better than he fpoke; of true judgement, of exact probity, and of a humble and obliging temper."

SCHOOL, a public place, wherein the languages, the arts, or fciences, are taught. Thus we fay, a grammar fchool, a writing fchool, a fchool of natural philofophy, \&c. - The word is formed from the Latin fchola, which, according to Du Cange, fignifies difcipline and correction; he adds, that it was anciently uled, in genetal, for all places where feveral perions met together, either to ftudy, to converfe, or do any other matter. Accordingly, there were fchola palatince, being the feveral pofts wherein the emperor's guards were placed; fchola fcutariorum, fchola gentilium, \&c. At length the term paffed alfo to civil magiftrates; and accordingly in the code we meet with fchola chartularicrum, fchala agentium, \&c. ; and even to ecclefiallics, as fchola cantorum, fchola facerdotum, \&c.

The Hebrews were always very diligent to teach and ftudy the laws that they had received from Mofes. The father of the family ftudied and taught them in his own family. The Rabbin taught them in the temple, in the fynagogues, and in the academies. They pretend, that even before the deluge there were fchools for knowledge and piety, of which the patriarchs had the direction.They place Adam at their head, then Enoch, and laftly Noah. Melchifedec, as they fay, kept a fchool in the city of Kajrath-fepher, otherwife Hebron, in Paleftine. Abraham, who had been inftructed by Heber, taught in Chaldrea and in Egypt. From him the Egyptians learned aitronomy and arithmetic. Jacob fucceeded Abraham in the office of teaching. The fcripture fays, he was "a plain man dwelling in tents;" which, according to the Chaldee paraphraft, is, "that he was a perfect man, and a minifter of the houfe of doctrine."

All this, indced, muft be very precarious and uncertain. It cannot be doubted but that Mofes, Aaron, and the elders of Ifrael, infructed the people in the wildernefs, and that many good Ifraelites were very induitrious to inftruct their families in the fear of God. But all this does not prove to us that there were any fuch fchools as we are now inquiring after. Under Jofhua we fee a kind of academy of the prophets, where the children of the prophets, that is, their difciples, lived in the exercife of a retired and auftere life, in fudy, in the meditation and reading of the law of God. There were fchools of the prophets at Naioth in Ramah; I Sam. xix. 12, 20, \& c. See the article Prophet.
Thefe fchools, or focieties of the prophets, were fucceeded by the fynagogues. See the article Synagogue.

Charity-SCHOOLS, are thofe fchools which are fet apart by public contributions or private donations for the inftruction of poor children, who could not otherwife enjoy the benefits of education. In no country are thefe more numerous than in Great Britain, where charity and benevolence are characteriftic of the nation at large. The following is a fummary view of the number of cha-rity-fchools in Great Britain and Ireland, according to the beft information at prefent, 1795.


Sunday. SCHOOLS are another fpecies of charity fchools lately initituted, and now pretty common in Great Britain. The inflitution is evidently of the firft importance; and if properly encouraged muft have a very favourable effect on the morals of the people, as it tends not only to preferve the children of the poor from fpending Sunday in idlenefs, and of confequerce in diffipation and vice, but enables them to lay in for the conduct and comfort of their future life a flock of ufeful knowledge and virtuous principles, which, if neglected in early life, will feldom be fought for or obtained amidit the huricy of bufinefs and the cares and temptations of the worid.

The excellent founder of Sunday fchools was Mr Raikes, a gentleman of Gloucefterihire, who, together rwih Mr Stock, a clergyman in the fame county, and who, we believe, was equally inftrumental in the bufinefs with Mr Raikes, mewed the example, and convinced many of the utility of the plan. From Gloucefterfhire the inllitution was quickly adopted in every county and almolt every town and parifh of the kingdom; and we have only further to remark on a plan fo generally known, fo much approved, and fo evidently proper, that we hope men of eminence and weight will alwass be found fufficiently numerous and willing to beflow their time and countenance in promoting it to the utmof of their power.

SCHOONER, in fea-language, a fmall vefiel with two mafts, whofe main-fail and fore-fail are fufpended from gaffs, reaching from the maft towards the flern, and Gretched out below by booms, whofe foremoft ends are hooked to an iron, which clafps the maft fo as to turn therein as upon an axis, when the after ends are fwung from one fide of the veffel to the other.

SCHORL, a fecies of mineral belonging to the filiceous genus. See Mineraiogy Index.

SCHOTIA, a genus of plants belonging to the decandria clafs; and in the natural method ranking under the 33d order, Lomentacere. See Botany Index.

SCHREBERA, a genus of plants belonging to the pentandria clafs. See Botany Index.

## S C H

SCHREVELIUS, Cornelies, a laborious DutchSchrecelius critic and writer, who las publithed fome editions of the ancient claffics more difinguined for their elegance $\underbrace{\text { Schurman. }}$ than accuracy: his Greek Lexicon is efteemed the beft of all his works. He died in 1667 .
sChultens, Albert, profeffor of IIcbrew and of the caftern larguages at Leyden, and one of the mof learned men of the 18 th century, was born at Groningen, where he fludied till the year 1706, and from thence continued his fludies at Leyden and U trecht. Schultens at length applied himfelf to the fudy of Arabic books, both printed and in manufcript; in which he made great progrefs. A thort time after he became minifter of Waffenar, and two years after profeffor of the eaftern tongues at Franeker. At length he was invited to Leyden, where he taught Hebrew and the eaflern languages with extraordinary reputation till his death, which happened in 1750 . He wrote many learned works; the principal of which are, 1. A Commentary on Job, 2 vols to. 2. A Commentary on the Proverbs. 3. Vetus et regia qia Hebrai-玉andi. 4. Animadverfiones philologica et critice ad varia loca Veteris Tgfamenti. 6. An excellent He'orew grammar, \&c. Scluultens difcovered in all his works found criticifm and much learning. He maintained againt Gouffet and Drieffen, that in ordcr to have a perfect knowledge of HIebrew, it is neceffary to join with it, not only the Chaldee and Syriac, but more particularly the Arabic.

SCHURMAN, Axva Maria, a moft extraordinary German lady. Her natural genius difcovered itfelf at fix years of age, when the cut all forts of figures in paper with her fciflars without a pattern. At eight, The learned, in a few days, to draw flowers in a very agreeable manner. At ten, the took but three hours to learn embroidery. Afterwards the was taught mufic, vocal and inftrumental; painting, fculpture, and engraving; in all of which fhe fucceeded admirably. She excelled in miniature-painting, and in cutting portraits upon glafs with a diamond. Hebrew, Greek, and Latin, were fo familiar to her, that the mof learned men were aftonihed at it. She fooke French, Italian, and Englifh, fluently. Her hand-writing, in almofl all languages, was fo inimitable, that the curious preferved fecimens of it in their cabinets. But all this extent of learning and uncommon penetration could not protect her from falling into the errors of Labadie, the famous French enthufiaft, who had been banifhed France for his extravagant tenets and conduct. To this man the entirely attached berfelf, and accompanied him wherever he went; and even attended him in his laft illnefs at Altena in HolStein. Her works, confifting of Dè vitue lumana termino, and Difertatio de ingentii mulicbris ad docitrinam el meliures hteras aptitudine, and her Letters to her learned correfpondents, were printed at Leyden in $16 \not{ }_{7} 8$; but enlarged in the edition of Utreche, 1662 , in 12 mo , under the following title: A. M. Schurman Opufcula $\mathrm{H}_{\mathrm{c}}$ Urea, Greca, Latina, Gallica, Profaica, et Metrica. She publifhed likewife at Altena, in Latin, A Defence of her attachment to Labadie, while the was with him in 1673 ; not worth reading. She was born at Cologne in 1607 , but refided chiefly in Holland, and died in Friefland in 1678 .

SCHWARTENBURG,

Schersten- SCHUTARTENBURG, a torm and cafte of Gerburg many, and circle of Upper Saxony, in the landgravate II Schwecie?. of Thuringia, and capital of a county of the fame name
belonging to a prince of the houle of Saxony. It is foated on the rivar Schwartz, 20 miles fouth-ealt of Erford, and 35 north of Cullembach. E. Long. 11. 27 . N. Lat. $5 \approx .45$.

SCHWAR IS, Christopher, an eminent hiforypainter, born at Ingolitadt in 1552 , who was dillinguilhed by the appellation of the German Raphael. He learned the firtt principles of the art in his own country, but finithed his fludies at Yenice; when he not only made the works of Titian his models, but had the advantage of receiving fome perfonal initructions from that illuftrious matler. His performances were foon in the highell efleem, as his manner of painting was very different from what the Germans had been accufomed to before that time: he was, therefore, invited by the elector of Bavaria to his court, and appointed his principal painter. He died in $159+$; and his mo.t capital work, as well in frefoo as in oil, are in the palace at Munich, and in the churches and convents.

SCHIVARTZEMBERG, a town of Germany, ia the circle of Franconia, and capital of a principality of the fame name. The caftle is feated on the river Lec, 5 miles north-wef of Nuremberg, and 20 eaft of Wertzburg, fubject to its own prince. E. Long. 10. 27. N. Lat. 49. 43.

SCHWEIDNITZ, a frong town of Silefia, and capital of a province of the fame name, with a caftle. Next to Breflaw, it is the handfomeft town of Silefia. The fireets are large, the church fine, and the houfes well built. The fortifications are not very confiderable, and the royal palace is turned into a convent. Great part of the city was burnt down in 1716, but it was afterwards elegantly rehuilt and improved. In 1757 it fell into the hands of the Auftrians, but wes retaken by the Pruffians the following year. All the magiItrates are Roman Catholics; but mof of the inhabitants are Proteflants, who have a church without the town, as ahoo a public fchool. It is feated on an eminence on the river Weiftriiz, 27 miles fouth-eaft of Lignitz, and 22 fouth-weft of Breflaw. E. Long. 16. 54. N. Lat. 50. 46.

SCHWEINFURT, a very ftrong, free, and imperial town of Franconia in Gernany, with a magnificent 1alice, where the fenators, who are 12 in number, meet. The environs are rich in cattle, corn, and wine; the inhabitants are Protellants. They carry on an extenfive trade is woollen and linen cloth, goofe-quills, and feathers. It is feated on the river Maine, 27 miles not h-ealt of Wirtzburg, and 25 weft of Bamberg. E. Lot f. 10. 25 . N. Lat. 52. 15 . This town was taken by the lir.:nch in 1-96.

SCHWEITL, a canton of s itzerland, bounded on the weit by the lake of the Four Cantons; on the fouth by the canton of Uri ; on the eaft by that of Glaris, and on tie noth by tho.e of Zurich and Zug. This canton, in conjunction swith thofe of Uri and Underwaiden, threw iff the Atflrian yoke in $13 \subset 3$, and formed a perfetual alliance in 1315 , which was the grand foundation of the Helvelic e nfederacy. The name of Schwcizeri. , or Sriizerland, wich at firt comple-
hended onily thofe three cantons, was afterwards extended to all Helve:ia. It derived that name, either from tlie c.nton of S. hweia, as being the moit ditringui hed by tie revolu drno $13=8$, or becaule the Aultians called all the inhain .n.s of thefe mountai ous paits by the general denomi... i I of Schreitzers. The government of Scw eitz and L'ri was entirely democratical tefore the late ruvlution. They contain about 50,000 inlabitants, and cold furnilh more than 12,000 militia. The whole country being mountaincuc, confifts chielly of patture, raifes little corn, and has no wine; but the foil, though naturally barren, has been improved by the na ives to a great degree of fertility. Luxury is fearcely knewn here; and a purity of moals prevails, which can fcarcely be imagined by the inlabitants of extenfive and optilent cities. The Runan catholic is the eitablifhed religion.

A dreadtcl difater happened in this canton ly the fall of part of a mountain called $R$ filberg or Rofenberg, on the evening of the 2 d of September 1 So6. Three villages were entirely overwhelmed by it in lefs than five minutes, and tro others were very much dam ged. The torrent of earth and itones difengaged on this melancholy occafion was even more rapid than that of lava, and its terrible effects were equally irrefifible, carrying rocks, trees, houles, every thing before it, and burying a fpace of charming country upwards of three miles iquare. So rapid was the motion of this dreadiul mafs, that it not only covered the adjoining valley, but afcended to a confiderable height on the fide of the oppofite mountain. A portion of it rolled into the lake of Lauvertz, a fifth part of which it is fuppofed to have filled up. Tbe agitation of the water was fo great as to overturn a number of houfes, chapess, mille, \&.c. along the fouthern flore of the lake, particularly the mill of Lauwertz, where 15 períns were killed, and buriad in the ruins of the buildings, although it was about 60 feet above the level of the lake.

The villages of Goldzu and Rothen, confifing of 115 houfes, that of Bufingen, of 126 , and that of Huzlock, totally di appeared. Of Lauwertz there remain only ten buildings mach damaged, and 25 were deffroyed. Stein loft two houfes and feveral fables, which latter were very numerous in all thefe villages. The total lofs of property of different kinds, as houfes, corws, horfes, goats, theep, \&cc. furfained on this occafion, has been eftimated at 122,0001. fterling. In the sillages which were o-erwhelmed, not an individual efcaped. More than 1000 perfons were the vietims of this difafter. Thirteen travellers were on their way from Arth to Schweitz, of whom the foremolt nine perifhed, and the remaining four efcaped, being about $\ddagger 2$ paces Lehind them.

About 20 years ago General P/yffer forctold this cataftrophe, from his particular knowiedge of the mountain. There was a fea of water above Spietzflue, which for feveral years bid undermined the rock, and in s eavern of gre.t depth beneath the waters were ergulphed. The q antity of water which fell during the pieceding years, tended to baften the arproach of this melancboly event, and the rai:s of fome wecks be ore, decided the fate of this mountain.

Schrimitz, a town of Switzeriand, and canital of the canton of the me name, is feated near the Waluiletter

## S C I [ 545 ] S C 1

S.arweitz fea, on the flope of a hill, and at the bottom of two $\underbrace{\begin{array}{c}\text { II } \\ \text { Sciagraphy. }\end{array}}$ high, Sharp, and rugged rocks, called the Schweitzer Hahuen. The church is an edifice both large and magnificent. It is 10 miles fouth-ealt of Lucerne. E. Long. 8. 30. N. Lat. 46. 55.

SCHWENKFELDIA, a genus of plants belonging to the pentandria clafs; and in the natural method sanking with thofe that are doubtful. \{See Botany Index.

SCHWENKIA, a genus of plants belonging to the diandria clafs. See Botany Index.

SCHWINBURG, a town of Denmark, on the fouth coalt of the illand of Funen, oppofite to the iflands of Arroa and Langeland. E.Long. 10.30. N. Lat. $55 \cdot 10$.

SCIACCA, anciently called Therme Selinuntic, in Sicily, derives its prefent denomination from the Arabic word Scheich. It is a very ancient place, being mentioned in the account of the wars between the Greeks and Carthaginians, to the latter of whom it belonged. It is defended by ancient walls and the caftle of Luna. It flands upon a very fteep rock, hanging over the fea, and excavated in every direction into prodigious magazines, where the corn of the neighbouring territory is depofited for exportation; there is no harbour, but a fmall bay formed by a wooden pier, where lighters lie to load the corn which they carry out about a mile to fhips to anchor.

The town is irregularly but fubftantially built, and contains 13,000 inhabitants, though Amico's Lexicon Topographicum fays the laft enumeration found only 948 ${ }^{\text {4. }}$. His accounts do not take in ecclefiaftics, and leveral denominations of lay perfons.

SCIÆNA, a genus of filles belonging to the order thoracici. See Ichithyology Index.

SCIAGRAPHY, or ScIography, the profile or vertical fection of a building, ufed for fhewing the infide of it.

Sciagraphy, in Afromomy, \&xc. is a term made ufe of by fome authors for the art of finding the hour of the day or night, by the fhadow of the fun, moon, flars, \& c.

SClATICA, the hip-gout. Sce Medicine Index.
SCIENCE, in Philofoply, denotes any doctrines deduced from felf-evident principles.

Sciences may be properly divided as follows, r. The knowledge of things, their conflitutions, properties, and operations: this, in a little more enlarged fenfe of the word, may be called Quoixn, or natural philofophy; the end of which is feculative truth. See Pinlosophy and Physics.-2. The flill of rightly applying thefe powers, $\pi \rho^{\alpha \alpha \pi t i o n: ~ T h e ~ m o f t ~ c o n f i d e r a b l e ~ u n-~}$ der this head is ethics, which is the feeking out thofe rules and meafures of human actions that lead to happinefs, and the means to practife them (fee Moral Philosophy); and the next is mechanics, or the application of the powers of natural agems to the ufes of life (fee Mechanics).-3. The doetuine of figns, orpewitien; the moft ufual of which being words, it is aptly enough termed logic. See Locic.

This, fays Mr Locke, feems to be the moft general, as well as natural, divifion of the objects of our underftanding. For a man can employ his thoughts about nothing but either the contemplation of things themfelves for the difcovery of truth ; or about the things in his own power, which are his actions, for the attainment of his own ends; or the figns the mind makes ufe of both in the one and the other, and the right ordering of them for its clearer information. All which three, viz. things as they are in themfelves knowable, actions as they depend on us in order to happinefs, and the right ufe of figns in order to knowledge, being toto calo different, they feem to be the three great provinces of the intellectual world, wholly feparate and ditinct one from another.

Sciastap
Science.

## SCIENCE, AMUSEMENTS OR RECREATIONS OF,

1 Nature and utility of Ecientific recreations.

ADESIRE of amufement and relaxation is natural to man. The mind is foon fatigued with contemplating the moff fublime truths, or the moft refined fpeculations, while thefe are addreffed only to the underftanding. In philofophy, as in polite literature, we muff, to pleafe and fecure attention, fometimes addrefs ourfelves to the imagination or to the paffions, and thus combine the agreeable with the ufeful. For want of this combination, we find that pure mathematics (comprehending arithmetic, geometry, algebra, fuxxions, \&c.), notwithftanding their great and acknowledged utility, are fludied but by few; while the more attractive fciences of experimental philofophy and chemiftry, are almoft univerfally admired, and feldom fail to draw crowds of hearers or fpectators to the lectures of their profeffors. The numerous ftriking phenomena which thefe latter fciences prefent to our fenfes, the filendid experiments by which their principles may be illuffrated, and the continual application which they admit, of thofe principles and experiments to the affairs of common life, have a powerful influence on the imagination; fix and keep alive the attention; excite the paffions of joy, terror, or furprife, and gratify that love of the marvellous which nature has implanted in the buman mind. Even the more abflrufe fubjects of pure mathematics, Vol. XVIII. Part II.
efpecially arithmetic and geometry, may be fometimes enlivened by amufing examples and contrivances; and are found the more pleafing, in proportion as they are fufceptible of fuch elucidation.

Thefe experimental contrivances, and ufeful applications to the purpofes of common life, conflitute what we may term the Amufements or Recreations of SCIENCE. They have very properly been denominated rational recreations, as they ferve to relax and unbend the mind after long attention to the cares of bufinefs, or to feverer ftudies, in a manner more rational, and often more fatisfactory, than thofe frivolous purfuits which too often employ the time, and injure the health of the rifing generation.
In the preceding volumes of this work, we have fup- object and plied our readers with many examples of foientific re-p'an of timo creation. Thus, the articles Legerdemain and $\mathrm{P}_{\text {Y-article. }}$ ROTECHNY may be regarded as entirely of this nature ; and in the experimental parts of Chimistry, Fixc. tricity, Galvanism, and Magnetism; in the articles Acocstics, Hydrodynamics, Mreminics, Optics, and its corelative divifions, Catoptrics, Dioptrics, Prrspective, and Mlicroscore; in Psermaties and Aprostation, we have related a yariety of interefting experiments, and defcribed many ingeni32 ous amufement. It is the object of the prefent article to bring thefe under one point of view, and to add a few of the more curious or ufeful experiments and contrivances which could not before be conveniently introduccd. In particular, we propofe to explain fome of thofe Tcientific deceptions which have excited fo much intereft and admiration, and to defcribe leveral ufeful philotophical inftruments, which either are of very late invention, or have been overlooked in the preceding parts of the work. We fhall thus be enabled to fupply feveral deficiences (otherwife unavoidable), and fhall render the prefent article a fort of general index or table of reference to the various fubjects of icientific amufement which are difperfed through the Encylopedia.

For greater convenience, and more eafy reference to preceding articles, we fhall arrange the lections under which the various araufements of fience may be reduced, in alphabetical order, according to the feries of the principal mathematical and philotoplical treatifes. Thus the article will be divided into 13 fections, comprehending the recreations and contrivances that selate to $A$ coustics, Arithmetic, Astronomy, Chemistr, Flectricitr, Galvantam. Geogrisphr; Geometry, Hidrodrnanici, Migedetisat, Mechanics, Optics, and PNEUNLATICS.

It muft not be fuppored, from the title of this article, that the fubjects which we are here to difcufs are puerile or triffing. They will be fuch as are belt calculated to excite the attention, quicken the ingenuity, and improve the memory of our young readers, and they will be fimilar to thofe purfuits which have employed the lighter hours of fome of the moot deftinguihhed philofophers and mathematicians. The names of Bacon, of Boyle, of Newton, of Defaguliers, of Ozanam, of Montucla, and of Hutton, ftamp a value on the recreations of fcience, and prevent us from confidering them as frivolous or trifling.
The fubject of fcientific recreations mult be regarded demoniltration and metaphyfical reafoning, than to cxperimental illuftration. Niuch may be found on thefe fubjects in the woiks of Lord Bacon and Mr Boyle; but the earlieft collection of fcientific amufements which deferves notice, is the work of Ozanam, entitled Récréations Mothematiques et Physiques, publified in 1692, in 2 vols 8 vo , and afterwards feveral times republifhed with ir.-provements and additions, till it was enlarged to 4 vols 8 vo . This work was foon tranflated into moft of the modern languages, and was given to the Englifh reader by Dr Hooper, under the title of Rational Recreations, firtt publihed, we believe, in 1774 , and again in 1783 , in 4 vols 8 vo. The original work of Ozanam has been lately recompofed and greatly improved by M. Montucla, and a tranflation of this improved edition into Engliff was publifhed in 1803, in $\ddagger$ vols 8 vo , by D: Charles Hutton. In this Englifh edition, the work is much better adapted than in any former copy, to the Englith reader, and is enriched by fome of the lateft improvements in natural philofophy and chemiftry.
recourfe for an explanation of the principles of thefe Recreatinas fciences, if they fhould find fome of the articles in thifo in AcoufEncyclopredia too abftrufe or too mathematical.

To young people who have never read any work on thefe fciences, we may recommend Mr Joyce's Scient ffic Dialogues, Dialogues on Chemifiry, and Dialogues on the Nicrofoope, and Mir Frend's Evening Amajements. After attentively perufing thefe, they may enlir.ige their information by reading Brewfter's edition of Fergufon's Leclures; Nicholfon's Introduction to Natural PlitioFophy; Gregory's Economy of Nature; or Dr Young's Lcefures on Naiural Phitifophy; and Henry's Epitome of Chemifiry, 8 vo edition.
Sect. I. Recreations and Contrivances relating to Acolstics.
In the article Acoustics, Vol. I. p. 1 59. We have Recreations related fix amufing experiments ard contrivances, and in 4 coulexplained them on the principles of acoutics. Thete are, tics. the converfing fatue, explained on the principle of the reflection of found ; the communicative buffs, and the oracular head, explained from the reverberation of found ; the folar fonata, the automaton harffichicrd, and the ventofe fymphony, explained partly on the principles of acountics, and partly on thofe of mechanics. We have now to explain a deception connected with the conveyance of found, well known to many of our readers, by the name of the invifble lady or invifible girl; and to notice fome curious figures atllumed by fand or other light bodies on the furface of vibrating plates.

Some years ago M. Charles, brother to the well- 1 nu ${ }^{6}$. known philofopher of that name, exhibited in London, laij. and afterwards in molt of the large towns of Great Britain and Ircland, the experiment of the invilible girl. The apparatus by means of which this experiment was conducted, and the principal circumflances attending the exhibition, have been defribed by Mr Nichollon, in his Philufophical Journal, from which the following account is principally taken.

In the middle of a large lofty room, in an old houfe, where, from the appearance of the wainfcot, and other circumfances, there feemed to be no fituation for placing acourtic tubes or reflectors, was fixed a wooden railing, about 5 teet high, and as many wide, inclofing a fquare fpace. A perfpective view of the apparatus is given at fig. 1. of Plate CCCCLXX, where A, A, A, A, reprefent the four upright polls. Thefe pofts were united by a crofs rail near the top, BB, and by two or more fimilar rails at the bottom. The frame, thus conflructed, flood upon the fioor, and from the top of each of the four upright pillars proceeded a firong bended brafs wire $a, a, a, a$, fo that they all met togetier at the top $c$, where they were fecured by a crown and prince's feather, or other ornaments. From thefe four "ires was fufpended a hollowv copper ball, about a foot in diameter, by means of lizht ribbons, fo as to cut off all poffible communication with the frame. Rourd this ball were placed four trumpets, at right angles to each other, as reprefented at $\Lambda, A, A, A, f i g . ~ 2$. having their mouths opening externally.

Such was the apparent confruction of the apparatus, and it was pretended that there refided within the ball an invifible lady, capable of giving anfwers to any queftions that were put to ber. When a queftion was propofed,

Reareapione pored, it was uttered in at the mouth of one of the trumin Acuusi- pets, and an anfwer immediately proceeded from all ti.s the trumpets, fo ditinetly loud as to be heard by an ear applied to any of them, and yet fo diftant and feeble, that it appeared to come from a very diminutive being. In this confitited the whole of the experiment, except that the lady could converfe in feveral languages, fing, defcribe all that happened in the room, and difplayed a fund of lively wit and accomplifliment that admitably qualified her to fupport the character the had undertaken.

The principles on which this experiment is conftructed are fimilar to thofe of the oracular head defcribed under Acoustics ; except that, in the preient deception, an artificial echo is produced by means of the trumpets, and thus the found is completely reveried, inftead of proceeding in its original direction. Fig. 3. reprefents a fection of the apparatus, and will explain the method by which the deception is eifected. One of the poffs A, A, as well as one-half of the hand-rail connected with it, is hoilowed intoa tube, the end of which opens on the infide of the rail, oppofite the centre of the trumpet on that fide, though the hole is very finall, and is concealed by reeds or other mouldings. At the other end the tube communicates with a long tin pipe $p p$ about half an inch in diameter, concealed below the floor of the room $f f$, and paffing up the wall to a large deal cafe, $k$, almolt timilar to an inverted funnel, and large enough to contain the confederate, and a piano forte, on which tunes may be occalionally played. A fmall hole clofed with glafs is left through the funnel and fide-wall of the room, as at $k$, fo that the confederate may have an opportunity of obferving and commenting oa any circumtlances which may take place in the room. Thas, when any queftion is afked at one of the trumpets, the found is conveyed through the communicating tubes inte the funnel-haped cafe, fo as to be heard by the confederate, who then gives the anfwer, which in like manner is conveyed through the tube below the floor to one of the trumpets, and is heard, either from that, or any of the reit.

## On the Figures produced by Light Badies on V'ibrating Surfaces.

About the year 1787 , Dr Chladni of Wittemberg drew the particular attention of philofophers to the nature of vibration, by inveftigating the curves produced by the moving points of vibrating furfaces. It is found that if fand, or a fimilar fubtance, be firewed on the furface of an elaftic plate, fuch as glafs or the fonorous metals, and if the plate be made to vibrate, the fand will arrange itfelf on particular parts of the furface, fhowing that thefe points are not in motion. Thefe figures are often extremely curious, and may be varied according to the pleafure or addiefs of the experimentalill. Some of the more remarkable are reprefented at figs. 5, 6, 10, 11 .

To prodase thefe fgures, nothing is neceffary hut to know the method of bringing that part of the furface which we wifh not to vibrale into a fate of reft; and of putting in motion that which we wifh to vibrate : on this depends the whole expertnefs of producing what are called vibration figurcs.

Thofe who have never tried thefe experiments may
imagine that to produce fig. 5 . it would be neceflary Rectet:an to damp, in particular, every point of the part to be kept in Accuulat rell, viz. the two concentric circles and the diameter, and to put in motion every part intended to vibrate. Fig. 亏ु This, however, is not the cale; for we need damp only the points $a$ and $b$, and caufe to vibrate one part $c$, at the edge of the plate; for the motion is foon communicated to the other parts which we with to vibrate, and the required figure will in this mamer be produced.

The damping may be beft effected by laying hold of the place to be damped between the fingers, or by fup. porting it nith ouly one finger. This will be more clearly comprelhended by turning to fig. 8. where the fig s. hand is reprefented in the poficion necellary to hold the plate. In order to produce fig. 6. we mult bold the fig. $\sigma$. plate horizontally, placing the thumb above at $a$, with the feco id finger direetly below it; and befides this, we muff fupport the point $b$ on the under fide of the plate. If the bow of a violin be then rubbed againft the plate at $c$, there will be produced on the glafs the figure which is delineated at fig. 6. When the point to be fig. 6. fupported or damped lies too near the centre of the plate, we may reff it on a cork, not too hroad at the end, brought into contact with the glats in fucls a manner as to fupply the place of the finger. It is convenient allo, when we wifh to damp feveral points at the circumference of the glafs, to place the thumb on the cork, and to ufe the relt of the fingers for touching the parts which we wifh to keep at rell. For example, if we wih to produce fig. 7. on an elliptic plate, the larger Fig. 70 axix of which is to the lefs as 4 to 3 , we mult place the cork under $c$, the centre of the plate; put the thumb on this point, and then damp the two points of the edge $p$ and $q$, as may be feen at fig. 8. and make the plate to vibrate by rubbing the violin bow againtt it at $r$. There is ftill another convenient method of damping feveral points at the edge when large plates are employed. Fig. 4: reprefents a frong. fquare piece of metal a b, Fig. a a line in circumference, which is ferewed to the edge of the table, or made falt in any other mamer; and a notch, about as broad as the edge of the plate, is cut into one fide of it by a file. We then hold the plate relting againft this piece of metal, by two or more fingers when requifite, as at $c$ and $d$, by which means the edge of the plate will be damped in three peints d. $c, e$; and in this manner, by putting the plate in vibration at $f$, we can produce fig. 3 . In cafes of necefifity, the Fig. 13 . edge of a table may be ufed, inftead of the piece of metal ; but it will not anfwer the purpofe fo well.

To produce the vibration at any required place, a common violin bow, rubbed with rofin, is the moft proper infru:nent to be employed. The hair mult not be too flack, becaufe it is fometimes neceffary to prefs pretty hard on the plate, in order to produce the tone fooner.

When we wifh to produce any particular figure, we muff firt forn it in idea upon the plate, in order that we may be able to deternine where a line at retl, and where a vibrating part, will occur. The greatefl rell will aluavs be where two or more lines interfect each other, and fuch places muft in particular be damped. For example, in fig. 9. we muft damp the part $n$, and ftroke with the how in $p$. Fig. 13. may be produced with no Fit. 33 lefs eafe, if we hold the plate at $r$, and froke with the

Recreations bow at $f$. The ftrongeft vibration feems alwrays to be in Acouf in that part of the edge which is bounded by a curve; tics for example, in figs. 10. and 11. at $n$. To produce
Fig. 10, 11. thefe figures, therefore, we muft rub with the bow at $n$, and not at $r$.

We mult, however, damp not only thofe points where two lines interfect each other, but endeavour to fupport at leaft one which is fuited to that figure, and to no other. For example, when we fupport $a$ and $b$, fig. 5. and ru' with the bow at $c$, fig. 9 . alfo may be produced, becaute both figures have thele two points at
Fiz. 5 . reft. To produce fig. 5. we muft fupport with one finger the part $e$, and rub with the bow in $c$; but fig. 9. cannot be produced in this manner, becaufe it has not the point $e$ at reft.

One of the greateft difficulties in producing the figures, is to determine before-hand the vibrating and refting points which belong to a certain figure, and to no other. Hence, when we are not able to damp thole points which diftinguifh one figure from another, if the violin bow be rubbed againft the plate, feveral hollow tones are heard, without the fand forming itfelf as expected. We muft therefore acquire by experience a readinefs, in being able to fearch out among thefe tones, that which belongs to the required figure, and to produce it on the plate by rubbing the bow againft it. When we have acquired fufficient expertnefs in this refpect, we can determine before-hand, with tolerable certainty, the figures to be produced, and even the moft difficult. It may be eafily conceived, that we muft remember what part of the plate, and in what manner we damped; and we may mark thefe points by foratching the plate with a piece of flint.

When the plate has acquired the proper vibration, endeavour to keep it in that ftate for forne feconds; which can be done by rubbing the bow againft it feveral times. By thefe means the fand will be more accurately formed.

Any fort of glafs may be employed, provided its furface be fmooth, otherwife the fand will fall into the hollow parts, or be thrown about irregularly. Common glafs plates, when cut with a fone, are very fharp on the edge, and would foon deftroy the hair of a violin bow; for which reafon the edge muft be fmoothed by a file, or a piece of freeftone.

We muft endeavour to procure fuch plates as are uniformly thick, and of different fizes; fuch as circular ones from four to 12 inches in diameter. Sand too fine muft not be employed. The plate muft be equally be-

* Pbit.

Mlag. vol iii. p. $3^{8} 9$

Ventriloguilm. ftrewed with it, and not too thickly, as the lines will then be exceedingly fine, and the figures will acquire a better defined appearance *.

The fubject of ventriloquifm, or that peculiar modification of voice by which founds are made to appear as coming from fituations at a diftance from the perfon who utters them, is a deception connected with the fubject of acouftics. This deception we have already explained under Physiology, $\mathrm{N}^{\circ} 251,254^{\circ}$

SECT. II. Recreations and Contrivanies relating to $\underbrace{\begin{array}{c}\text { Aritinneti- } \\ \text { cal Recre } \\ \text { ARIOns. }\end{array}}_{9}$
The only amufements connected with this fubject, of Arthmetiwhich we have already given an account, are thofe con- cal reereatained under the head of Mifcellaneous Performances in tions. the $4^{\text {th }}$ fection of the article Legerdemain, the moft curious of which is the method of difcovering, by calculation, what perfon in a felect party has put a ring on his finger, as well as the hand, the finger, and the joint on which the ring is placed. We have alfo defcribed the magic fquares, and magic circles, in vol. xvi. p. 354 , et feq. A mechanical method of performing the principal arithmetical operations has been defcribed under Abacus.

## To perform a queflion in' Simple Addition merely by knowing the firft line.

The queftion propofed may conffif of five lines of fi- Addition $_{\text {IO }}$ gures, of which the firlt and fecond lines are written by performed the propoler, the third by the perfon to whom the que-from a fion is propofed, and the fourth and fifth alternately by fingle line the propofer and expounder; but before the fecond line is written, the expounder is to difcover the fum in the following manner. To each digit of the firft line he adds 2 , which gives as many digits of the fum as are contained in the firft line of the queftion, and to thefe 2 is to be prefixed on the left hand. To accommodate the queftion to this fum, when the propofer has written the fecond line, the expounder conftructs the third by deducting each digit of this line from 10 , fo that his third line confifts of the remainders. In like manner the expounder conftructs the fifth line by remainders from the digits of the fourth line fet down by the propofer, deducting the frit digit on the right hand from 12 , and the relt from 10 . The following example will illuftrate the method of procedure.

Suppofe it be required to find the fum in a queftion of which the firit line is 35726 . Adding 2 to each of thefe digits, and prefixing 2 to the furm, we have for the furn of the whole queltion 257948 . 35726 Let us now fuppole that the fecond line writ- 21354 ten by the propofer is 21354 . To conftruct 89756 the third line, the expounder fubtracts 2, 1, 13248 3, 5, 4 each from 10 ; and the remainders $8,9,7,5,6$, form the third line. Laftly, Suppofe that the propofer's next line, forming the fourth, flands thus, $1,3,2,4,8$.
To find the laft line, the expounder deducts $1,3,2,4$, each from 10 , and 8 from 12 , by which he obtains 9 , $7,8,6,4$; and it is evident that the addition of these five lines produces the fum originally fet down from the firft line only.
N. B. It is effential to the performance of this queftion, that none of the digits written by the propofer be cyphers (A).

Moft
(A) Though it is not our intention in the prefent article, to explain all the experiments and contrivances fo fully as to leave nothing to the ingenuity of the reader, we may remark, with refpect to the prefent queilion, that as the obtained fum is derived merely from the firt line of figures, all below this muft be fo contrived as to prokuce by their addition a line in which all the digits are 2's. Accordingly, it will be found that the addition of the

Arithmeti- Muit of our readers are well acquainted with the eal Recrea- queltion in multiplication refpecting the price of a horfe tions. from fucceffively doubling a farthing as often as there are nails in the horfe's fhoes. (See MIontucla's Recreacions by Hutton, vol. i. or Sandford and Merton, vol. i.). The following quellion is of a fimilar nature, but appears ttill more furprifing. evice to his fovereign, the latter wifbing to confer on him a fuitable reward, defired him to a/k whaiever he thought proper, promifing that it Jbould be granted. The courtier, who was well acquointed with the fcicnce of numbers, requefled only that the monarch would give him a quantity of wheat equal to that which would arife from one grain doubled 63 times fucceffively. What was the value of the reward?

The origin of this problem is related in fo curions a manner by Al-Sephadi, an Arabian author, that it deferves to be mentioned. A mathematician named Sefla, fays he, the fon of Daher, the fubject of an Indian prince, baving invented the game of chefs, his fovereign was highly pleafed with the invention, and wifhing to confer on him fome reward worthy of his magnificence, defired him to afk whatever he thought proper, affuring him that it fhould be granted. The mathernatician, however, afked only a grain of wheat for the firft fquare of the chefs-board, two for the fecond, four for the third, and fo on to the laft or 64 th. The prince at firft was almoft incenfed at this demand, conceiving that it was ill fuited to his liberality, and ordered his vizir to comply with Sefia's requeft; but the minifter was much aftonithed when, having caufed the quantity of corn necellary to fulfil the prince's order to be calculated, he found that all the grain in the royal granaries, and that even of all his fubjects, and in all Afia, would not be fufficient. He therefore informed the prince, who fent for the mathematician, and candidly acknowledged his inability to comply with his demand, the ingenuity of which aftonilhed him ftill more than the game which he had invented.

To find the amount of this prodigious reward, to pay which even the treafury of a mighty prince was in ufficient, we fhall proceed moft eafily by way of geometrical progreffion, though it might be difcovered by common multiplication and addition. It will be found by calculation, that the $6 \not+$ th term of the double progreflion, beginning with unity, is $9,223,372,036,854,775,808$. But the fum of all the terms of a double progreffion, beginning with unity, may be obtained by doubling the laft term and fubtracting from it unity. The number, therefore, of the grains of wheat equal to Seffa's demand, will be $18,446.744,073,709,551,615$. Now, if a ftandard Englifh pint contain 9216 grains of wheat, a gallon will contain 73,728 ; and, as eight gallons make one bufhel, if we divide the above refult by 8 times 73,728 , we fhall have $31,274,997,412,295$ for the number of the bufhels of wheat neceffary to dif-
charge the promife of the Indian king; and if we fup-Atithmetipofe that one acre of land be capable of producing in cal kecreaw one year, 30 bulhels of wheat, to produce this quantity rions. would require $1,042,499,913,7 \div 3$ acres, which make more than 8 times the furface ot the globe; for the diameter of the earth being fuppofed equal to 7930 miles, its whole furface, comprehenuing land and water, will amount to very little more than $126,437,859,177$ fquare acres.

If the price of a bufhel of wheat be eftimated at 10s. (it is at prefent, Auguft $18=9,12 \mathrm{~s}, 6 \mathrm{~d}$, per bulhel), the value of the above quantity will amount to $15,637,498,706,147$ l. 10s. ; a lum which, in all probability, far furpafies all the riches on the earth *.

## To difcover any Number thought of.

* Hutton's

Recrea-
tions, vol. is
Of this problem there are feveral cafes, differing To tell a chienly in complexity of operation.
number
I. Defire the perion who has thought of a number, thought of. to triple it, and to take the exact hait of that triple if it be even, or the greater half if it be odd. Then defire him to triple that half, and afk him how many times that product contains 9 ; for the number thought of will contain double the number of nines, and one more if it be odd.

Thus, if 4 has been the number thought of, its triple will be 12 , which can be divided by 2 without a remainder. The half of 12 is 6 , and if this be multiplied by 3 , we fhall have 18 , which contains 9 twice, the number will therefore be 4 equal twice 2 , the number of nines in the laft product.
II. Bid the perfon multiply the number thought of by itfelf; then defire him to add unity to the numoer thought of, and to multiply that fum alfo by itfelf; in the laft place, aik him to tell the difference of thole two products, which will certainly be an odd number, and the lealt half of it will be the number required.

Let the number thought of be 10 , which multiplied by itfelf gives 100 ; in the next place 10 increafed by I is 11 , which multiplied by itfelf makes 121 , and the difference of thefe two fquares is 21 , the leaft half of which being 10 , is the number thought of.

This operation might be varied in the fecond ftep by defiring the perfon to multiply the number by itfelf, after it bas been diminifhed by unity, and then to tell the difference of the two fquares, the greater half of which will be the number thought of.

Thus, in the preceding example, the fquare of the number thought of is 100 , and that of the fame number, fubtracting 1 , is 81 ; the difference of thefe is 19 , the greater half of which, or 10 , is the number thought of.
III. Defire the perfon to add to the number thought of its exact half if it be even, or its greater hait if it be odd, in order to obtain a firt fum; then bid him add to this fum its exact half, or its greater balf, according
firf right-hand column produces 22 , and that of all the reft 20 , which, with the addition of the 2 carried, fupplies the other 2 's in the line. From this it is evident, that though, for more eafy illuftration, we have given a quefion containing only five lines; feren, nine, or any unerqual number may be employed, confrueting the feventh, ninth, \&ec. on fimilar principles,

Arithmeti- as it is even or odd, to have a fecond fum, from which cal decrea- the perion muft fubtract the double of the number ti-ns thought of. Then defire him to take the half of the remainder, or its lefs haif if it be an odd number, and continue halving the half till he comes to unity. When this is done, count how many fubdivifions have been made, and for the firf divifion retain two, for the fecond 4 , for the third 8, and fo of the reff, in double proportion. It is here neceflary to obferve, that i muft be added for each time that the leaft balf was taken, becaufe, by taking the leaft half, one always remains; and that 1 only mult be retained when no fubdivifion could be made; for thus you will have the number the halves of the halves of which have been taken; the quadruple of that number then will be the number thought of, in cafe it was not neceffary at the beginning to take the greater half, which will happen only when the number thought of is evenly even, or divifible by 4 ; but if the greater half has been taken at the firft divifion, 3 muft be fubtracted from the above quadruple, or only 2 if the greater half has been taken at the fecond divifion, or 5 if it has been taken at each of the two divifions, and the remainder then will be the number thought of.

Thus, if the number thought of has been 4 ; by adding to it its half, we fhall have 6 ; and if to this we add its half, 3 , we fhall have 9 ; if 8 , the double of the number thought of, be fubtraeted, there will remain I, which cannot be halved, becaufe we have arrived at anity. For this reafon, we muft retain 1 ; and the quadruple of this, or 4 , will be the number thought of.
IV. Defire the perfon to take $I$ from the number thought of, and to double the remainder ; then bid him take 1 from this double, and add to it the number thou ht of. Having afked the number arifing from this addition, add 3 to it, and the third of the fum will be the number required.

Let the number thought of be 5 ; if 1 be taken from it, there will remain 4, the double of which 8, being diminifhed by 1 , and the remainder 7 being ircreafed by 5 , the number thought of, the refult will be 12 ; if to this we add 3 , we fall have 15 , the third part of 3 which, 5 , will be the number required.
V. Defire the perfon to add 1 to the triple of the number thought of, and to multiply the fum by $\mathbf{3}$; then bid him add to this product the number thought of, and the refult will be a fum, from which if 3 be fubtracted, the remainder will be double of the number required. If 3 therefore be taken from the laft fum, and if the cipher on the right be cut off from the remainder, the other figure will indicate the number fought.

Let the number thought of be 6, the triple of which is 18 , and if unity be added it makes 19 ; the triple of this laft number is 57 , and if 6 be added it makes 63 , from which if 3 be fubtracted the remainder will be 60 ; now, if the cipher on the right be cut off, the remain. ing figure 6 will be the number required.
VI. Among the various methods contrived for difoovering numbers thought of, we have feen none more ingenious than the following, which was lately communicated to us. This is a fort of puzzle, conffling of fix flips of paper or pafteboard, on which are written numbers as expreffed in the following columns.

|  | - |
| :---: | :---: |
|  | $\varpi$ |
|  | $\bigcirc$ |
|  | $\theta$ |
|  | - |
|  | H |

The fix flips being thus prepared, a perfon is to think of any one of the numbers which they contain, and to give to the expounder of the queftion thofe flips which contain the number thought of. To difcover this number, the expounder has nothing to do but to add toge. ther the numbers at the top of the columns put into his hand. Their fum will exprefs the number thought of.
Example. Thus, fuppofe we think of the number 14. We find that this number is in three of the flips, viz. thofe marked $B, C$, and $D$, which are therefore given to the expounder, who on adding together 2,4 , and 8 , obtains 14, the number thought of.
This trick may be varied in the following mannero Inttead of giving to the expounder the flips containing the number thought of, there may be kept back, and thofe in which the number does not occur be given. In this cafe the expounder muft add together, as before, the numbers ai the top of the columns, and fubtract their fum from $6_{3}$; the remainder will be the number thought or.
Example. Tiking again the former number ${ }^{1} 4$, the flips in which this is not contained are thofe marked A, E, and F. Adding together 1,16 and $3^{2}$, the expounder has 49 , which fubtracied from 63 , leaves 14 , the number thought of as before.
The flips containing the columns of numbers are ufually

Afronimi. ufually marked with letters on the back, and not above deceptio: Inore complete, as the expousder of the queition knowing before haid the number at the top of each colcinn, tins only to exsmine the letters at the back of the flips givan him, when he performs the problem wihout looktag at the numbers, find thus readers the trick more ext'ardinary.

Towards explaining the principles on which this puzzle has been conltructed, we may remark, 1 . 'That each coluron may be divided into fets of figures; thole of each column confitting of as many figures as are reprefented by the number at the head of the column, one figure in each fet in the column maiked 1 ; two i: that marked 2 ; four in 4, \&c. 2. 'Hat af:er each parcel there is a blank of as mary figures as that paicel confuts of, counting in a regular teries from the iaft number of the parcel. 3. That the numbers of each parcel are in arithmetical progreffion, while thofe at the bead of the columns are in geometrical progreflion. 4. That the firt fets of all the columns taken tagether in regular feries, compoie the whole feries of numbers in the columns from 1 to $6_{3}$, and are conlequently the moll important, as any number thought of mull be found in only one of thefe fets. 5. That the fum of all the terms of the goometrical progrellion is equal to the laft or bigheft term of the arithmetical progreflion $\sigma_{3}$, and is allo equal to the double of the laft term of the geometrical progreffion diminithed by unity.

Having premifed thefe remarks, we fhall not proceed farther than to hint, that, in conitructing this ingenious puzzle, the author appears to have employed the properties of geometrical progreffons, and their relations to arrithmatical progreffions, for which fiee the article Series.

To render thefe columns more portable, they may each be divided into three or more, and written on fmall cards, marked at the back with letuers. In this form the firlt figure of the firft column muft be enaployed, like the firf figure at the head of the nips, or the better to difguife the contrivance, the figures of each column may be placed in a confuled order, and the letters alone employed.

Mr William Frend, well known as the author of the Evening Annfements, has rendered an important fervice to the rifing generation, by the publication of his Tanyible Arithmetic, or the Art of Numbering made cafy, by means of an arithmetical toy. The toy which forms the bafis of this method of numbering, is fimilar to what has been called the Chinefe board, which is explained in the fourth volume of Mr Frend's Evening Am:femenis. This toy is fo conftruated as to be capable of expreffing any number as far as $16,666,665$, and is capable of performing a great variety of arithmetical operations, merely by moving a few balls. The author gives a variety of fimple inftances and amufing games, by which the firf four rules of arithmetic may be explained and illuftrated. The whole contrivance is very ingenious, and well deferves the attention of mothers and all ieachers of children.

Antunomi- SECT. III. Recieations and Contrivances relating to Antunomieat recreations.
in our treatife on that fubject. Among the mof ufeful Anronomiof the aftronomical amufements, however, is the method al Recrea. of diceovering the feveral thats that compoie the conttel- $\underbrace{\text { tims. }}$ laious, and this we thall here explain.

Before we can become dequatined with the flars that Mtethod of compole the contlellations, we mult be provided with learuing accura'e celeftial charts, or a goud planifplicre, of fuch the contlela fize that flars of the fint and fecond magnitudes can tations. be readily diffinguifhed on it. Having placed befure us one of thefe charts, as that contaning the north pole, or that part of the planifphere which contaias the northern hemifphere, firft find out the Great Bear, commonly called Charles's win (Plate CCCCLXX1, fig. Fig, r4. 14). It masy be eafily known, as it forms one of the mout remarkable groupes in the heavens, confiting of leveral Itars of the fecond magnitude, four of which are arranged in fuch a manner as to reprefent an irrk gular fquare, and the other three a prolongation in the form of a vely obtufe falene triangle. Belides, by examining the figure of thete feven flars, as exbibited in the chart, we thall eaiily ditinguifh thofe in the heavens which correlpond to them. When we have made ourfelves acquainted with thefe feven principal fars, we examine on the chart the conaguration of the neighbruring flats, which belong to the great bear; and thence learn to daftinguith the other lefs confiderable fars which compofe that conftellation.

After knowing the Great Bear, we may eafily proceed to the Leffer Bear; for nothing will be neceffary but to drav, as my be feen in fig. 15. a ftraight line Fig. 15 through the two anterior itars of the fquare of the Great Bear, or the two farthelt diftant from the tail ; this line will pafs wcry near the polar ftar, a flar of the fecond magnitude, and the only one of that fize in a pretty large fpace. At a little difance from it, there are two other flars of the fecond and third magnitudes, which, with four more of a lefs fize, form a figure formewhat fimilar to that of the Great Bear, but fmaller. This is what is called the Lefer Bear; and we may leam, in the fame manner as before, to dillinguifh the fars which compofe it.

Now if a fraight line be drawn through thofe fars of the Great Bear, neareft to the tail, and through the polar flar, it will conduct us to a very remarkatle group of five ftars arranged nearly in this form MI (fee fig. 16.) Thefe are the conflellation Caf- Fig. 16. fopecia, in which a very brilliant new star appeared in 1572 ; though foon afier it became fainter, and at length difappeared.
If a line, perpendicular to the above line, be next drawn through this conflllation, it will conduet, on the one fide, to a very beautiful flar called A/Jcrib, which is in the back of Perfeus; and in the other, to the confellation of the Swan (fig. 37.), remarkable by a ftar Fig. 170 of the firft magnitude. Near Perfeus is the brilliant flar of the Goat, called Capella, which is of the firf magnitude, and forms part of the conflellation of Auriea.

After this, if a ftraight line be drawn through the laft two flars of the tail of the Grcat Bear, we tha'l come to the neighbourhood of A-churus, one of the mant billliant ftars in the heavens, which forms part of the conftcllation of Booter (fig. 18.)

In this manner we niay fucceffively employ the knowledge which we have obiained of the flars of one confellation, to eaable us to find out the neighouring

Afrenomi- ones. We fhall not enlarge farther on this method; cat kecrea- for it may be eaflily conceived, that we cannot proceed in this manner through the whole heavens; but any perfon of ingenuity may thus in the courfe of a few nights, learn to know a great part of the heavens, or at any rate the principal ftars and conftellations.

In the article Astrononiy we have defcribed the ufual infruments for afcertaining the fituation, diftances, \&c. of the heavenly bodies. We munt here add an account of an ingenious inftrument for finding the rifing and fetting of the flars and planets, and their pofition in the heavens. This inftrument is called an affrometer, and was originally invented by M. Jurat. An improved aftrometer has been lately contrived by Dr David Brewfter, and is thus deferibed by him in Nicholfon's Journal for May 1807, vol. xvi.
"This aftrometer, reprefented in Plate CCCCLXXI. fig. 19. confifts of four divided circumferences. The innermoft of thefe is moveable round the centre A, and is divided into 24 hours, which are again fubdivided into quarters and minutes, when the circle is fufficiently large. The fecond circumference is compofed of four quadrants of declination, divided by means of a table of femidiurnal arcs, adapted to the latitude of the place. In order to divide thefe quadrants, move the horary circle, fo that 120 'clock noon may be exactly oppofite to the index B: then fince the flar is in the equator, and its declination 0 , when the femidiurnal are is VI hours, the zero of the fcales of declination will be oppofite VI. VI. and as the declination of a far is equal to the colatitude of the place, when its femidiurnal arc is 0 , or when it juft comes to the fouth point of the horizon, without rifing above it, the degree of declination at the other extremity of the quadrant, or oppofite XII. XII. will be the fame as the colatitude of the place, which in the prefent cafe is $39^{\circ}$, the latitude of the place being fuppofed $51^{\circ}$ North. The intermediate degrees of declination are then to be laid down from a table of femidiurnal arcs, by placing the degree of declination oppofite to the arc to which it correfponds; thus the $10^{\circ}$ of fouth declination muft fland oppofite $V^{h}{ }^{1} 3^{\prime}$ in the afternoon, and $V l^{\text {h }} 47^{\prime}$ in the morning, becaufe a declination of $10^{\circ}$ fouth gives a femidiurnal arc of $V^{h} 13^{\prime}$. When the fcales of declination are thus completed, the inftrument is ready for flewing the rifing and fetting of the flars. For this purpofe move the horary circle till the index B points to the time of the flar's fouthing; thus, oppofite to the ftar's declination in the fcale C, if the declination is fouth, or in the fcale D if it is north, will be found the time of its rifing above the horizon; and the degree of declination on the fcales E and F , according as it is fouth or north, will point out on the horary circle the time of the far fetting. If the rifing of the ftar is known from obfervation, bring its declination to the time of its rifing on the circle of hours, and the index B will point out the time at which it paffed the meridian ; and its declination on the oppofite fcale will indicate the time when it defends below the horizon. In the fame way, from the time of the ftar fetting, we may determine the time when it rifes and comes to the meridian.
" The two exterior circles are added to the aftrometer, for the purpofe of finding the pofition of the ftars and planets in the heavens. The outermoft of thefe is divided into 360 equal parts; and the other, which is a
fcale of amplitudes, is fo formed, that the amplitude of Chembent any of the heavenly bodies may be exactly oppofite the Recreacorrefponding degree of declination in the adjacent circle. The degree of fouth declination, for inflance, in the latitude of $51^{\circ}$, correfponds with an amplitude of $15^{\circ} 20^{\prime}$, confequently the $15^{\circ}$ of amplitude muft be nearly oppofite to the roth degree of declination; fo that by a table of amplitudes the other points of the fcale may be eafily determined. The aftrometer is alfo furnifhed with a moveable index MN, which carries at it extremities two vertical fights $m n$, in a ffraight line with the centre A. The inftrument being thus completed, let it be required to find the planet Saturn, when his declination is $15^{\circ}$ north, and the time of his fouthing $3^{\text {b }} 30^{\prime}$ in the morning. The times of his rifing and fetting will be found to be $7^{\mathrm{h}} 15^{\prime}$, and $10^{4} 45^{\prime}$, and his amplitude $24^{\circ}$ north. Then fhift the moveable index till the fide of it which points to the centre is exaetly above $24^{\circ}$ of the exterior circle in the north-eaft quadrant, and when the line $A B$ is placed in the meridian, the two fight holes will be directed to the point of the horizon where Saturn will be feen at $7^{h}{ }^{1} 5^{\prime}$, the time of his rifing. The fame being done in the northweft quadrant, the point of the horizon where the planet fets will likewife be determined. In the fame way the pofition of the fixed ftars, and the other planets, may be eafily difcovered.
" If it is required to find the name of any particular ffar, that is oblerved in the heavens, place the aftrometer due north and fouth, and when the flar is near the horizon, either at its rifing or fetting, flift the moveable index till the two fights point to the flar. The fight of the index will then point out, on the exterior circle, the ffar's amplitude. With this amplitude enter the third fcale from the centre, and find the declination of the ftar in the fecond circle. Shift the moveable horary circle till the time at which the obfervation is made be oppofite to the flar's declination, and the index B will point to the time at which it paffes the meridian. The difference between the time of the flar's fouthing, and 120 'clock noon, converted into degrees of the equator, and added to the right afcenfion of the fun if the flap comes to the meridian after the fun, but fubtracted from it if the ftar fouths before the fun, will give the right afcenfion of the far. With the right afcenfion and declination thus found, enter a table of the right afcenfions and declination of the principal fixed ffars, and you will difcover the name of the ftar which correfponds with thefe numbers. The meridian altitudes of the heavenly bodies may always be found by counting the number of degrees between their declination and the index B . The aftrometer may be employed in the folution of various other problems; but the application of it to other purpofes is left to the ingenuity of the young aftronomer."

## Sect. IV. Recreations and Contrivances relating to Chemistry.

The experiments which illuftrate the principles of Chemical Chemiftry, afford abundant examples of fcicntific re-recreations. creations. We cannot here enter on this extenfive field, as we have already illuftrated the fubjeat very fully under the article Chemistry. In the prefent fection, therefore, we fhall do little more than enumerate fome of the more ftriking experiments, referring our readers
chemical for a decciption and cxplamaion of them, to the above
Kecrea- article, and to the principal elcmentary works on motions. dern chemiley, efpcially the Epitome of Chemifry, by Dr William H-my (Swe edition), to which the following enumeration will chiefly refer.

Amony the more curious and interefling experiments of cheminiry, we may notice the combuttion produced by arapping nitratc of copper, flightly moittened, in a theet of tim foil (Henry, p. 15.) ; the reftection of heat and cold from the furface of concave mirrors (Cnemistry, $\mathrm{N}^{\circ}{ }^{1} \mathrm{~F}$, or Henry, p. 28.) ; the artificial production of great degrees of cold, fo as to frecze mercury and alcoliol (Cimmistry, 274. or Henry, p. 56.); the experiments of Dr Herfchel, thewing that the fun emits rays which heat without illuminating ; othens which illuminate without licating; and othess which neither illumimate nor heat, but produce evident chemical changes (Chemistry, 172 , or Henry, p. 48.); the combuflion of charcoal, phophiorus, and iron wires, in oxygenous gas, and noore efpecially the combullion of metals in a combined 1 ream of orygen and hydrogen gafes (Henry, P. 6ว.) ; the explogion of hydrogenous and oxyschous gafes, and confequent production of water (Chrmistry, $33_{2}$, and Henry, p. 70.) ; the decompofition of water (Chemistry, $3^{88}+$, or Henry, p. 78.); the effect of a/kalies and acids in changing the colour of blue vesetable infufions to grein and red (Henry, p. 102.); the combuftion produced by mixing nitric acid with effortial oils, or other combutibles (Chemistry, 512 , and fienry, p. 1 11.) ; the combultion produced by throwing metallic particles into oxygenixed murriatic acid gas (Henry, p. 181.) ; the deflagration of hyperoxygemized muriate of pota $\beta$, with phopphorus and other combultibles (Chemistry, o62, et fe 1 . or Henry, p. 887 .) ; the production of phapphorated hydrogen gas, by throwing phofphuret of lime into water (Henry, p. 197.) ; and the decompofition of metallic folutions, fo as to procure the metals in a pure or metallic flate.

As thefe laft experiments are only incidentally noticed in the article Chrmistry, and in Dr Henry's Epitome, we flall here defcribe two of the moft curious inflances

The firf of thefe which we flall notice is called $A r$ bor Dianc, the tree of Diana, or the filver tree, as it is
mercury in the fame acid, both in a ftate of faturation, are to be mixed together, and a fmall quantity of diftilled water to be added. This mixture is to be pouned into a conical glats weffel, containing fix pats of an am$\mathrm{al}_{b}$ : m made ot leven parts of mercury and one of filver. At the end of fome hours there will appear on the dirfice of the ama' $\mathrm{g}^{2 m}$ a metallic precipitate in the form of a vegetation.

The other experiment which we have to defcribe is Tie: ${ }^{1 ?}$ ? that of producing a leaden tree, which, as it may be le 1. performed on a large fcale, and at a trilling expence, is preferable to the former. The method of effecting this decompofition which we have found moft effcctual, is the following.

Diffolve in diftilled or pure rain water a quantity of acetate of lead (fugar of lead), not fufficient to faturate it ; viz. in the proportion of four fruples of the falt to
the Englilh pint of water. When the folution has beit ; viz. in the proportion of four fruples of the falt to
the Engliih pint of water. When. the folution has become clear, pour it into a cylindrical veffel, or a glafs come clear, pour it into a cylindrical veffel, or a glafs
wine decanter of confiderable fize, and introduce into it an irregular piece of pure bright zirc, fufpended by a ftring, or a piece of brafs wire. In the courfe of a few hours, the zinc will be covered with a dußky grayith mafs, having the appearance of mofs, and from this are gradually fhot out plates or leaves of a brilliant metallic fubftance. Thefe will extend themfelves towards the fubftance. Thefe will extend themtelves towards the
botom of the veffel, and will form trunks, branches, and leaves, fo as to refemble a leaden tree fufpended by its
roots from a mofly hill. In this way we have produced leaves, fo as to relemble a leaden tree furpended by its
roots from a mofly hill. In this way we have produced a vegetation that bas nearly filled a cylindrical glafs-jar of a foot in beight, and four or five inches in diameter.

## SEct. V. Recreations and Contrivances relating to EI.ECTRICITY.

ThE fubject of electricity, like that of chemiftry, affords ample room for fcientific recreations. Of thefe we have given a large collection in our treatife on Elec.TRICITY, and fhall here only enumerate the more ftriking experiments.

Thefe are, the phenomena produced by paper when excited by caoutchouc or Indian rubber (fee Electricity, Part 1. Chap. 3.) ; the experiments of the dancingfisurcs, dancing-balls, illuftrating electrical attraction and repulion; the elcetrical orrery, and elecirifid cotton, illufrating the action of points; the clecrififed fopder; the magic piciure, elcarical jock, felf.moving whece, foiral tube, luminous conduClor, aurora borcalis, cleतהrified can and chain, and the thiunder-houffe.

## Sect. VI. Aurufements and Contrivances relating to GALIV ANISM.

The fubject of galvanifm, though fo nearly allied to electricity, is capable of fupplying ftill more extraordi- Galv... nary experiments many of which are often witneffed an ufenary experitent, man with furprife and admiration. Many of thefe have been related in our treatife of Galvanifm. The moff friking of thele are, the mufcular contractions produced in dead animals, efpecially thufe of Aldini (Galvanisit, No 35.$)$; the combutfion of charcoal (.$^{0} 4^{2}$.) ; the deAlagration of metals ( $\mathrm{N}^{0} 43$.) ; and the decompofition of water ( $N^{\circ} 44$.). The experiments on deflagrating the metals, and on other perfect conductors, fucceed bcit with a trou $\cdot \mathrm{h}$ of very large plates of zine and copper ;
$\qquad$
$\qquad$ -
 -
h.: experim:n! onal imal bodies, and other imperfect conhi: experim:n! onas imal bodies, and other imperfect con- produced by decompofing a folution of filver, fo that the filver is exhibited in the metallic flate, and in an arborefeent form. There are two methods of producing the orbor Dianre, one hy Homberg, and the other by Beaumé.

According to Homberg's method, an amalgam is to be formed by rubbing a quarter of an ounce of very pure mercury, and half an ounce of fine filver reduced to leaves or filings, by triturating them together in a porphyry mortar, with an iron peftle. This amalgam is to be diffolved in four ounces of the pureft nitric acid of a moderate flrength, and the folution is to be diluted with about 24 ounces of diffilled water. An ounce of this liquor is to be poured into a glafs, and a fmall piece of a fimilar amalgam of mercury and filver, of the confiltence of butter, is to be introduced. Soon afler there may be feen rifing from the ball of amalgam a multitude of fmall flining filaments, which vifibly incre le in number and fize, and throw out branches, fo as to form a kind of flurub.

Beaumés nethod is as follows.-Six parts of a folution of filver in nitric acid, and fuur of a folution of Vol. XVIII. Part II.

Ge grai - duckes, are effectual in preportion to the number cal
Recies-
t: 1 ns .
${ }_{22}$
Geog aphical recred-
tisns. of 1 . ates employed.
Sect. VII. Recrastions and Contrivances relating to GEGG. APHX.
Sowe of the problems on the globes, and the ufe of the analemma engraved on Plate CCXXXV. conititute the priacip.. 1 recreations and contrivances relating to geography. To thefe we fhall add only an eniy method of approximating to the third problem on the terreftrial glooe, (ice Geography, $\mathrm{N}^{\circ}$ 67.), namely, having the hour at any place given, to find what hour it is at other places on the earth.
Geogrehi-
c: ho:olo-
gium.
Fis. 23.
Fig. 20. confirts of an outer circle graduated at the edge into 96 equal parts, reprefenting the 24 hours and their quarters, and is marked with two fets of hours from I. to XII. each; the XII. at the top of the figure reprefenting noon, and the XII. at the bottom, midnight. The hours on the right hand are of courfe thofe of the evening, and thofe on the left are morning hours. About the centre of this large circle there is moveable a circular plate, having the figure of a globe in the middle, and having the circumference divided into 360 equal parts, comprehending fo many degrees. The diameter marked 0,182 , reprefents the meridian of London. It has the names of the primcipal places on the earth marked at its edge. Of thefe London is the principal, and is engraved in capitals. Now, by means of this contrivance, if the time at any one of thefe places be given, we can find very nearly the time at the other places marked on the inner circle. Thus, fuppofe it is X. o'clock in the forenoon at London, to find the hour at the other places in the inner circle, place the word Loydon oppofite X . on the left hand ; then we ftall find that at Rome it is a quarter before XI.; at Berlin it is about XI.; at Stockholm about 20 minutes after XI. ; at St Peteryburgh it is noon; at Bombay it is nearly III. in the afternoon; at Pekin it is nearly VI. in the evening; at Botany Bay it is about VIll. in the evening; at Nerw Zealand it is X. at night; at Mexico it is about III, in the morning ; at Philadelphia it is V.;
and at the Leeward Iflands about VI. in the morning.

The Abbé Gualtier bas contrived a game, by which he flows how geography may be tanght to young pcople by means of a fet of toys. This method appears to be very ingenious, and is much extolled by thofe who are acquainted with it. As we have not been able to procure the apparatus, we cannot defcribe the method, according to which the game is conducted.

Mr Efgeworth propofes that geography flould be taught to young people by means of a large globe made of fiik, marked with the proper meridians and parallels, to be occafional!'y inflited; and that the places met with in reading flould be laid down according to their proper longitudes and latitudes as they occur. See Praclical Education, 8 vo, vol. ii. p. 239 .
SECT. VIII. Recreations and Contrivances relating to Geomethr.
Frous among the numerous problems which have been contrived hy geometricians, we flall felcet a few of the moft fimple and curious.

To divide a Reçangular Gnomon into four equal and Gcomestrifirniliar Gnomons.
Suppofe we have the rectangular figure $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$, Recrea. tions. E, F, lig. 21. (A) ; it is required to divide it into four kig. 21. equal and fimilar reciangular figures.
On cxamining this figure, we find that the fides $A B$ and BC are equal, and that if the fides AF and CD were produced, they would, by meeting, complete the fquare, of which the gnomon is evidently a part. The figure therefore forms three-fourths of a iquare, and may be divided into three fquares, AHEF, EHBG, and DEGC. Each of the fe lquares may in like manner be divided into four, as reprefented by the dotted lines. Thus we have the whole gnomon divided into 12 equal fquares, and it is eafy to fee how from this divifion we may form four figures, each conftituting three-fourths of a fquare, and contequently fimilar to the original figure.

## From four unequal Triangles, of which three mull be Right-angled, to form a Square.

As the triangles with which this problem is ufually $\mathrm{To} \mathrm{form} \mathrm{a}_{27}^{27}$ performed, are generaNy made mechanically, by cutting fquare of them from a fquare already formed, we thall for the four unmore eafy folution, follow the fame method in our firt aqual triilluffration. The fquare A, B, C, D, fig. 22. is divi- Fig. 22. ded into the four triangles E, F, G, H, ot which E, F, and G , are evidently right-angled triangles, while H is a fcaleme triangle.

If thefe triangles were feparate, it would appear very difficult to unite them, fo as to form a fquare. This may be done, however, by reflecting that three of the angles of the fquare muft be formed by the angles of the right-angled triangles, fo that thefe muft firlt be placed as in the figure, while the fcalene triangle fils up the vacant fpace, and by its molt acute angle contributes with the moft acute angles of the two other large triangles, to form the remaining right angle of the fquare.

Thefe triangles may be conlfructed geometrically, without forming them immediately out of a fquare. For this purpofe the following proportions may be employed. Two of the right-angled triangles muft have one of the fides about the right angle of the fame length in both. The other fide about the right angle may be in one, two-thirds of the firlt fide in the lame triangle, while in the other it may be one half. In the third right-angled triargle, one of the fides containing the right angle mulf, in the prefent cafe, be one-third, and the other one-half of the larger fide containing the right angle in the two former triangles. Having thefe three triangles formed, the hypothenufes of which are evidently determined by the length of the fides containing the right angles, we may eafily conftruci the remaining triangle from the hypothenuies of the three triangles aiready formed, according to the 22 d propofition of the firft book of Euclid.

To illuftrate this by numbers, let us fuppofe that the fide of the fquare to be formed is = four inches. One of the triangles, as $E$, will have its longer fide $=$ four inches, its fhorter $=$ three inches, and its hypotherufe $=$ fivc inches. The fecond triangle, as $F$, will have its
longer
(A) We have denominated this figure a gnomon, becaufe it refembles, in its outline, that part of a parallelogram which is diflinguifled by the name of gnomon in the fecond definition of the fecond book of Euclid's Elements.

Geometri- longer fide $=$ four inches, its fhorter $=$ two incher, and
$\xrightarrow{\square}$

## 28

To form 2 fquare of five equal iquares.
Fig. 23.
its hypothenule $=$ fquare root of $20(4.472135)$; and the third triangle, as G , will have its louger lide $=$ two inches, its thorter $=$ one inch, and its hypothenufe $=$ fquare root of $5(2.236068)$ : the fides of the remaining triangle will be refpectively five inches, 4.472135 inches, and 2.236068 inches.

## To form a Square of five equal Squares.

Divide one fide of each of four of the fiuares, as $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D},\left(\right.$ fig. $23, \mathrm{n}^{\circ} 1$, and 2 ,) into two equai parts, and from one of the angles adjacent to the oppofitc fide draw a fraight line to the point of divifion ; then cut thefe four fquares in the direction of that line, by which means each of them will be divided into a trapezium and 3 triangle, as feen fig. 23. $n^{\circ}$ I.

Lattly, arrange thefe four trapeziums and thefe four triangles around the whole fquare E , as feen fig. $23 \cdot \mathrm{t}^{\circ}$ 2. and you will have a fquare evidently equal to the live fquares given.

## To defcribe an Ellipfos or Oval geometrically.

The geometrical oval is a curve with two unegual axes, and having in its greater axis two points to fituated, that if lines be drawn to the fe two points, from each point of the circumference, the fum of thefe two lines will be always the lame. See Conic Sections.

Let AB (fig. 24.) be the greater axis of the ellipfis to be defcribed; and let DE , interlecting it at right angles, and dividing it into two equal parts, be the leffer axis, which is alfo divided into two equal parts at C ; from the point D as a centre, with a radius $=A C$, defcribe an arc of a circle, cutting the greater axis in F and $f$; thefe two points are what are called the foci. Fix in each of thefe a pin, or if you operate on the ground, a very itraight peg; then take a thread or a chord, if you mean to defcribe the figure on the ground, having its two ends tied together, and in length equal to the line AB , plus the diftance $\mathrm{F} f$; place it round the pins or pegs Ff; then ftretch it as feen at FG $f$, and with a pencil, or flarp-pointed inftrument, make it move round from $B$, through $D, A$, and $E$, till it seturn again to $B$. The curve deicribed by the pencil on paper, or on the ground, by any fharp inftrument, during a whole revolution, wiil be the curve required.

This ellipfis is fometimes called the gardener's ovat, becaufe, when gardeners defcrioe that figure, they employ this method.

An oval figure approxinating to the ellipfe, may be defcribed at one fweep of the compaffes, by wrapping the paper on which it is to be defcribed round a cylindrical lurface. If a circle be defcribed upon the paper thus placed, affuming any point as a centre, it is evident that when the paper is evtended on a plain furface, we fhall have an oval figure, the fhorter diancter of which will be in the direftion of the axis of the cylinder on which the oval was deferibed. This figure, however, is by no mcans an accurate oval, thon hi it may ferve very well as the border of a drawing, or for fimilar purpofes, where great accuracy is not required.

In no fcience are amufig contrivances more requifite to facilitate the progreis of the young pupil than in geometry. We are therefore difpofed to regard, with particular attention, every attempt to illuftrate and render popular the elements of this ficience. We may fay
with Mr Edgeworth, that though there is ceriainly no royal road to geometry, the way may be rendered eafy and pleafant by timely preparations for the journey. Without fome previous knowledge of the country, or of its peculiar language, we can foarcely expect that our young traveller fhould advance with facility or pleafure. Young people hould, from their "earlieft years, be accultomed to what are commonly called the regular folids, viz. the tetrabedron, or regular four-fided folid; the cube, or segular fix-fided folid; the octahedron, or regular eight-fided folid; the dodecahedron, or regular 12-fided folid; and the icofahedron, or regular 22 -fided folid. Thufe may be formed of card or wood, and Mr Ion, an ingenious mathematician of Brittol, has conftructed models of thefe and other mathematical figurce, and explained them in an Effay on Mechanical Geometry. Children floould alio be accuftomed to the figures in mathematical diagrams. To thefe thould be added their refpective names, and the whole language of the fcience thould be rendered as familiar as pofitible *.

We have lately met with a contrivance for rendering familiar to childien the terms of geometiy by means of an ealy trick. This contrivance is called Le Pet:t Eufented at fig. 25 . Plate CCCCLXXII, and fig. 26. Le Petit Plate CCCCLXXIII. Erch of thefe circles is divided Euclid. into eight compartments, marked $1,2,3,4,5,6,7,8$, and within each compartment are reprelented feveral mathematical figures or diagrams. In the centre of the card reprefented at fig. 25 . is the word que/fin $n$, and in that at fig. 26. the word anfwer. On the latter the figures are difinguithed by numbers, referring to their explanations in the following table.
$\mathrm{N}^{0}$

1. The cone.
2. Curve line.
3. Quadrant.
4. Ipoint.
5. Dotted cofine.
6. Dotted fecant.
7. Cube.
8. Pyramid.
9. A perpendicular.
10. Acute-angled triangle.
11. Decagon.
12. Hexagon.
13. Square.
14. Right angled triangle.
15. Sphere.
16. Circular fegment.
17. An andle.
18. Dotted length.
19. Parallelopipedon.
20. Dotted radius,
21. A fector.
22. Heptagon.
23. The bafe.
24. Dotted abfciffe.
25. Hoiceles triancle.
26. Dotted line fubtending an angle.
27. Dutted ordinate.
28. Enneagon, or regular 9 -fided figure. 9 and
$\mathrm{N}^{\circ}$
29. The foci of an c!lipfe.
3). OAtagon.
30. Rhomboid.
31. Equilateral triangle.
32. Pentagon.
33. Spindic.
34. A fealene triangle.
35. Parallelogram.
36. Obtufe-angled triangle.
37. Dotted height.
38. Hyperbola.
39. Dotted conjugate diameter.
40. Dotted hypothenufc.
41. Dotted parameter.
42. Rhombus:
43. Dotted diameter.
44. Dotted fine.
45. An obtufe angle.
46. Parabola.
47. Cylinder.
48. Fixternal angle.
49. Dotted tangent.
50. Straight line.
51. Ellipfis.
52. Dotted diagonal.
53. Circle.
54. Dotted tranfverfe diameter.
55. Prifm.
56. Dotted

## Geometri-

cal
Recrea-
tions.

$\xrightarrow{\longrightarrow}$

$\qquad$





$\qquad$

$\qquad$
$\qquad$



[^19]

## No

62. A fpherical fruftum. 63. Vertical or oppofite angles.
64 . An acute angle.
63. A lemaicircle.
64. Dotted chord.
65. A right angle.
feg. we have defcribed and explained the clepfydra Hydroftatie with its varieties. The following amufing experiments Recieaare derived from Ozanam and Montucla,
To con/ruct a veffel which, when filled to a certain Tantalus's height with any ligtor, 乃oall retain the liquor, but /Jall cup. fuffir the whole to efcope when filled with the fame fluid ever fo little above that height.
Let there be a metallic veffel, as ABCD, fig. 27. Fig. 27. divided into twe parts by a partition $\mathrm{F} f$, having in the middle a fmall round hole, as at M , to receive a tube MS, about two lines in diameter, fo that the lower orifice M may defcend a little below the partition. This tube is open at both ends, but is to be covered with another a little larger, clofed at the top, and having on one fids, at the bottom, an aperture, fo that when water is poured into the veffel, it may force its way between the two tubes, and rife to the upper orifice $S$, of the inner tube. This mechanifm mult be concealed by a finall figure of a man in the attitude of ftooping to drink, which we may call Tantalus. This figure muft have its lips a little above the orifice $S$.

If water be poured into this veffel, fo long as it does not afcend above the orifice S , it will be retained; but as foon as it gets above this orifice, fo as to touch the lips of Tantalus, it will begin to run off, the tubes acting in the manner of a fyphon, and carrying off the whole of the water into the lower cavity, which ought to have in its fide, near the partition, a fmall aperture for allowing the air which it contains to efcape, while the water fupplies its place.

This machine may be rendered ftill more amufing by conftruating the frall figure of Tantalus in fuch a manner, that when the water has attained its ut mof height, it fhall caufe the head of the figure to move, fo that its lips may approach the fluid, thus reprefenting the geftures of Tantalus endeavouring to catch the water to quench his thirit.
To confruEl a veffel which, while A anding upright, retains the liguor poured into it; but if inclined, as for the purpofe of drinking, immediately fuffers it to efcope.
Let a hole be pierced in the bottom or fide of the veffel to which you are defirous of giving this property, and infert in it the longer branch of a fyphon, the other extremity of which muft reach nearly to the bottom, as feen fig. 28.; then fill the veffel with any liquor as far as Fig. $28_{2}$ the lower fide of the bent part of the fyphon; it is evident that when inclined, and applied to the mouth, this movement will caufe the furface of the water to rife above the bending, and from the nature of the fyphon the lizuor will begin to flow off; and if the veffel is not reffored to its former pofition, will continue doing fo till it becomes empty.

This artifice might be concealed by means of a dou- Fig. 29 . ble cup, as appears at fig. 29.; for the fyphon abc, placed between the two fides, will produce the fame effect. If the veffel be properly prefented to the perfon whom you are defirous of deceiving, that is to lay, in fuch a manner as to make him apply his lips to the fide $b$, the fummit of the fyphon, the inclination of the liquor will caufe it to rile above that furmit, and it will imn.cdiately cicape at $c$. Thofe perfons, herever, who are acquainted with the artifice will apply their lips to the otligr fiefe, and not meet with the fame difappoint ment.

Mchiod

Hydroftatic Melhod of comfructing an hydraulic machine, in which a Recres- bird appears io drink up all the water that fpouts up $\underbrace{\text { tions. }}$ through a pipe, and falls into a bafon.
33
Fig. 30.
Let A B D C, fig. 30, be a veffel, divided into two parts by an horizontal partition EF ; and let the upper cavity be divided into two parts alfo by a vertical partition G H. A communication is formed between the upper cavity B F, and the lower one E C, by a tube L M, which proceeds from the lower partition, and defcends almoft to the bottom D C. A limilar communication is formed between the lower eavity E. C, and the upper one A G , by the tube $I \mathrm{~K}$, which, rifing from the horizontal partition E F, proceeds nearly to the top A B. A third tube, terminating at the upper extremity in a very fmall aperture, defcends nearly to the partition E F, and paffes through the centre of a bafon R $S$, intended to receive the water which iffues from it. Near the edge of this bafon is a bird with its bill immerled in it ; and through the body of the bird paffes a bent fyphon $Q P$, the aperture of which, $P$, is much lower than the aperture $Q$. Such is the conftruction of this machine, the ufe of which is as follows.

Fill the two upper cavities with water through two holes, made for the purpole in the fides of the veffel, and which mult be afterwards Shut. It may be eafily feen that the water in the cavity A G ought not to rife above the orifice K of the pipe KI. If the cock adapted to the pipe L. M be then opened, the water of the upper cavity H F will flow into the lower cavity, where it will comprefs the air, and make it pafs through the pipe K I into the cavity A G; in this cavity it will comprefs the air which is above it, and the air preffi.g upon it, will force it to fpout up through the pipe NO, from whence it will fall down into the bafon.

But at the fame time that the water flows from the cavity B G, into the lower one, the air will become rarefied in the upper part of that cavity; bence, as the weight of the atmofphere will act on the water, already poured into the bafon through the orifice $O$ of the afceriding pipe NO, the water will flow through the bent pipe QSP, into the fame cavity BG; and this motion, when once eflablithed, will continue as long as there is any water in the cavity A G.

Sect. X. Recreations and Contrivances relating to MAGNETISM.
Tuie attracting and repelling power of the oppofite poles of a magnet, lave furnihied the writers on fcientific recreations with a great variety of entertuining experiments. In our treatife on M.ignetism, we have felected a few of thefe, viz. the communicating picce of money (Magnetisnt, $\mathrm{N}^{\circ} 39$ ); the mognctic talle ( $\mathrm{N}^{\circ}$ 40); the mufferious watch ( $\mathrm{N}^{\circ}{ }_{41}$ ) ; the magnetic dial $\left(\mathrm{N}^{\circ}+2\right)$; and the divining circles ( $\mathrm{N}^{\circ} 4.2$ ). We fhall bere defcribe a few other interefling experiments, and refer fach of our readers as wih for a greater varicty of thice amulemerts, to the original work of Ozinam already mentioned in $\mathrm{N}^{\circ} 3$, or the Rat $\operatorname{inal}$ Recreations of Dr Honper, and to the sift part of the Enyclopedie Methodique, contaiting Amu $m$ ns dos Sceicreer, with the prates on Amuftmens de Ahyfigue, in the $42 d$ part of the fame work.
thous pain-
ter.
Fig. 3 I.

The dextrous Fainier.
Provide two faill bo:ses, as.M and N (fig. 3t.) isur
inches wide, and four inches and a half long. Let the Maynetie box M be half an incli deep, and N two thirds of an inch. They mult both open with hinges, and fhut with $\qquad$ a clafp. Have four fmall pieces of light wood (Gigs. $32,33,34,35$.) of the fame fize with the infide of the Fig. 32, 33, box M, (fig. 3 I.) and about one third of an inch thick. $34,35^{\circ}$
In each of thefe let there be a groove, as, A B, E. F, C D, G H ; thele grooves mult be in the middle, and parallel to two of the fides. In each of thefe grooves place a itrong artificial magnet, as fig. 36. The poles of thele magnets muft be properly difpofed with regard to the figures that are to be painted on the buards; as is expreffed in the plate. Cover the bars with paper to prevent their being feen; but take care, in palling it on, not to wet the bars, as they will be rufted, and thus their virtue will be confiderably impaired. When you have painted fuch fubjects as you choofe, you may cover them with a very thin clear glafs. At the centre of the box N , place a pivot, (fig. 37.) on which a fmall circle of patteboard O P Q R (fig. 38.) is to turn quite free. Under this muft be a touched needle S. Divide this circle into four parts, which are to be difpofed with regard to the poles of the needle, as is expreffed in the figure. In thefe four divifions paint the fame fubjcets as are on the four boards, but reduced to a fimaller compafs. Cover the infide of the top of this box with a paper, MI, (fee fig. 3 1. ) in which mult be an opering Fig. 3 r. $D$, at about half an incls from the centre of the box, that you may perceive fucceflively, the four imall pictures on the pafteboard circle jult mentioned. 'This opening is to ferve as the cloth on which the little painter is fuppoled to draw one of the pictures. Cover the top of the box with a thin glafs. Then give the firft box to any perlon, and tell him to place any one of the four pictures in it privately, and when be has clofed it, to give it to you, then place the other box over it, when the moveable circle, with the needle, will turn till it comes in the fame pofition with the bar in the firft box. It will then appear that the litule dextrous painier has already copied the picture that is enclofed in the firlt box.

## The Cylindric Oracle.

Provide a hollow cylinder about fix inches high, and cylindrie three wide, as A B (fig. 39.) Its cover C D mult beolacle. made to fix on in any pofition. On one fide of this box Fis 35 . or cylinder, let there be a groove, nearly of the fame length with that fide; in which place a imall tleel bar (fiz. 42.) that is flrongly impregnated, with the noth pole next to the bottom of the cylinder. On the upper fide of the cylinder deferibe a circle, and divide it into ten equal parts, in which are to be written the numbers from I to 10 , as is exprefled in fig. 4 I . Place a pivot at the centre of this circle, and have ready a magnetic needle. Then provide a bag in which there are feveral divifions. In each of thefe divifions put a umber of papers, on which the fame or fimilar yueftions are to be written. In the cylinder put fevenil different anfwers to each queltion, and feal them up in the manner of fmall letters. Oit each of thefe letters or anfwers is to be written one of the numbers of the dial or circle at the top of the box. You are lipi cfid to know the number of anfuers to each quellion. Then effer one of the divifions of the lag, (olferving which


Magnetic of the papers. Next put the top on the cylinder, with Recrea- that number which is written on the anfwer directly tions. over the bas: Then defire the perfon who drew the

Fig. 44 quellion to obferve the number at which the needle ftands, and to fearch in the box for a paper of the fame number, which he will find to contain the anfwer. The experiment may be repeated by offering another divifion of the bag to the fame, or another perfon; and placing the number that correfponds to the anfwer over the magnetic bar, proceeding as before.

It is eafy to conceive feveral anfwers to the fame queftion. For cxample, fuppofe the queltion to be, Is it proper for the to marry?

Anf. I. While you are young, not yet; when you are old, not at all.
2. Marry in hafte, and repent at leifure.
3. No, if you are apt to be out of humour with yourfelf; for then you will have two perfons to quarrel with.
4. Yes, if you are fure to get a good bufband (or wife), for that is the greateft bleffing of life. But take care you are fure.
$5 . N$, if the perfon you would marry is an angel ; unlefs you would be content to live with the devil.

Fix a common ewer, as A (fig. 42.) of about 12 inches high, upon a fquare ftand BC ; on one fide of which there mult be a drawer $D$, of about four inches fquare, and half an inch deep. In the ewer place a hollow tin cone inverted, as A B (fig. 43.) of about four inches and a half diameter at top, and two inches at bottom; and at the bottom of the ewer there muft likewife be a hole of two inches diameter.

Upon the ftand, at about an inch diftance from the bottom of the ewer, and directly under the hole, place a fmall convex mirror $H$, of fuch convexity that a perfon's vifage, when viewed in it at about 15 inches diftance, may not appear above $2 \frac{\mathrm{r}}{2}$ inches long.

Upon the itand likewife at the point I, place a pivot of half an inch high, on which mult be fixed a touched needle $R Q$, inclofed in a circle of very thin pafteboard OS (fig. 44.) of five inches diameter. Divide this pafteboard into four parts, in each of whieh drawv a fmall circle; and in three of thefe circles paint a head, as $x, y, z$, the drels of each of which is to be different; one, for example, having a turban, another a wig, and the other a woman's cap. Let that part which contains the face in each picture be cut out, and let the fourth circle be entirely cut out, as it is expreffed in the figure. You muft obferve, that the poles of the needle are to be difpofed in the fame manner as in the figures.

Next provide four fmall frames of wood or pafteboard, $\mathbf{N}^{0} 1,2,3,4$, each of the fame fize with the infide of the drawer. On thefe frames munt be painted the fame figures as on the circular pafteboard, with this difference, that there muft ke no part of them cut out. Behind each of thefe pictures place a magnetic bar, in the fame direction as is expreffed in the figures; and cover them over with paper, that they may not be vifible. Matters being thus prepared, firft place in the drawer the frame $\mathrm{N}^{\circ} 4$, on which there is nothing painted. Then pour a fmall quantity of water into the ewer, and defire the company to look into it, akking them if they fee their own figures as they are. Then tare out the frame $\mathrm{N}^{\circ} 4$, and give the three others to any one, deffring him to choofe in which of thofe dreffes he would appear. Then put the frame with the
drefs he has chofen in the drawer, and a moment after, Magnetic the perfon looking into the ewer will fee his own face Recreafurrounded with the drefs of that picture. For, the $\underbrace{\text { t:ms. }}$ pafteboard circle (divided, as above ${ }^{6}$ defcribed, into four parts, in three of which are painted the fame figures as on three of the boards, and the fourth left blank) containing a magnetic needle, and the four boards having each a concealed magnet; therefore when one of them is put in the drawer under the ewer, the circle will correfpond to the pofition of that magnet, and confequently the perfon looking into the top of the ewer will fee his own face furrounded with the head drefs of the figure in the drawer. This experiment, well performed, is highly entertaining. As the pafteboard circle can contain only three heads, you may have feveral fuch circles, but mu't then have feveral other frames: and the ewer muft be made to take off from the ftand.

Provide a wooden box, about 13 inches long and 7 The box of inches wide, as ABCD (fig. 45.). The cover of this Fig. 45. box fhould be as thin as polible. Have fix finall boxes or tablets, about an inch deep, all of the fame fize and form, as E, F, G, H, I, K, that they may indifcriminately go into fimilar holes made in the bottom of the large box. In each of thefe tablets is to be placed a finall magnetic bar, with its poles difpofed as expreffed in the figure. Cover each of thefe tablets with a thin plate of one of the fix following metals, viz. gold, filver, copper, iron, pewter, and lead. Have alfo a magnetic perfpective, at the end of which are to be two circles, one divided into fix equal parts, and the other into four (as in fig. 46.), from the centre of which there muft be drawn an index N , whofe point is to be placed to the north. "Therefore, when you are on the fide CD of the box, and hold the perfpective over any one of the tablets that are placed on the boles E, F, G, fo that the index drawn on the circle is perpendicular to the fide $A B$, the needle in the perfpective will have its fouth pole direded to the letter that denotes the metal contained in that tablet. When you hold the perfpective over one of the boxes placed in the holes $\mathrm{H}, \mathrm{I}, \mathrm{K}$, fo that the index drawn on the circle is perpendicular to the fide CD, the fouth pole of the needle will, in like manner, exprefs the name of the metal inclofed. If the under fide of any of the tablets be turned upwards; the needle will be flower in its motion, on account of the greater diftance of the bar. The gold and filver will ftill have the fame direction ; but the four other metals will be expreffed by the letters on the interior circle. If any one of the metals be taken away, the needle will not then take any of the above directions, but naturally point to the norih; and its motion will be much flower. Therefore, give the box to any one, and leave him at liberty to difpofe all the tablets in what manner and with what fide upwards he pleafes, and even to take nny of them away. Then, by the aid of the perfpective, you may tell him irmmediately the name of the metal on each tablet, and of that which he has taken away.

ContruEt a round box, ILNAI (fig. 47.), of eight The mage or nine inches diameter, and half an inch deep. On itsnetic plabottom fix a circle of pafteboard, on which draw the netarium. central circle $A$, and the feven furrounding circles $\mathrm{Fig}_{\mathrm{g}}+i^{-}$ $\mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}, \mathrm{F}, \mathrm{G}, \mathrm{H}$. Divide the central cicle into feven ecuat parts by the lines $A B, A C, \triangle D, A E, A F$, AG, AH, which muft pafs through the centres of the

Mrignetic other circles, and divide each of them into two equal pirs. When divide the circumference of each of thete circles into 14 equal parts, as in the figure. Have allo another pafteboard of the fame figure, and divided in the fame manuer, which mult turn freely in the box by means of an axis placed on a pivot; one end of which is to be in the centre of the circle A (iee fig. 49.). O: each of the feven fraller circles at the bottom of the box, place a magnetic bar, two inches long, in the fame direction with the diameters of thofe circles, and their poles in the fituation expreffed in the figure. There muft be an index O (fig. $4^{\mathrm{s}}$.), like that of the hour hand of a dial, which is to be fixed on the axis of the central circle, and by which the pafteboard circle in the box may be tumed about. There mult alfo be a needle $P$, which muft turn freely on the axis, without moving the circular pafteboard. In each of the feven divifions of the central circle write a different quellion ; and in another circle, divided into 12 parts, write the names of the 12 months. In each of the feren circles write two anfivers to each queftion, obferving that there muft be bat feven words in each anfiver, in the following mamer. In the firf divifion of the circle G (fig. 47.), which is oppofite to the firf quefion, write the firit word of the firft anfiver. In the fecond divifion of the next circle, write the fecond word, and fo on to the laft word, which will be in the feventh divifion of the feventh circle.

In the eighth divifion of the firt circle, write the firft word of the fecond anfwe:; in the ninth divifion of the fecond circle, write the fecond word of the fame anfwer, end fo on to the $14^{\text {th }}$ divifion of the feventh circle, which muft contain the laft word of that anfwer, The fame muft be done with all the feven quef. tions, and to each of them muft be afligned two anfwers, the words of which muft be difperfed through the feven circles. At the centre of each of thefe circles place a pivot, and have two magneted needles, the pointed end of one of which muft be north, and the Fig. 48. other fouth, QR (fig. 48.). Now, the index of the central circle being directed to any one of the quettions, if you place one of the two magnetic needles on each of the feven leffer circles, they will fix themfelves according to the direction of the bars on the correfpondent circles at the bottom of the box, and confequently point to the feven words which compofe the anfuer. If you place one of the other needles on each circle, it will point to the words that are diametrically onpufite to thofe of the firft anaver; the north jole being in the place of the fouth pole of the other. Therefore, prefent this planetarium to any perfon, and defire him to choofe one of the queitions there written; and then fet the index of the central circle to that queltion, putting one of the needles on each of the feven circles, turn it about; and when they all fetle, they will point to the feven words that compof the anfwer. The two anfwers may be one favourable and the other unfavourable, and the different needles will ferve to diverfify the anfwers when the experiment is repeated.

There may be alfo a moveable needle to place againt the names of the months; and when the party has fixed upon a queftion, place that needle againft the month in which he was born, which will give the bufinefs a more myfterious air. On the centre of the large circle may be the figure of the fun; and on each of the feven fmal-
ler circles one of the characters of the principal planets. Magnetic This experiment, well executed, is one of the mof entertaining produced by magnetifm.

Provide a box XY (big. 49.), 18 inches long, nine wide, and two deep, the con of which is to nide off and the fa on at the end S: Towards the end X, deferibe a cir-cious fwan. cle of fix inches diameter, around which are to be fixed Fig. 49 . fix lmall vales of wood or ivory, of an inch and a half high, and to each of them there nuuft be a cover. At the end Y place an egg B, of ivory or fome fuch material, about three inches and a half high, with a cover that fluts by a hinge, and faftens with a \{pring. It muft be fixed on thic fand $C$, through which, as well as the bottom of the egg, and the patt of the box directly undcrneath, there is a hole of one-third of an inch diameter. In this cavity place an ivory cylinder F , that can move frecly, and which rifes or falls by means of the fpring R. You muit have a thin copper bafon A, of lix inches diameter, which is to be placed on the centre of the circle next X , and confequently in the middle of the fix vafcs. Let a proper worliman confruct the morement exprefled by fig. 50 . which is compofed of a quadrant $G$, that has 16 teeth, and is moveable about an axis in the fand If, that lias an elbow, by which it is fcrewed to the bottom of the box at L. I'o the quadrant there mufl be juined the firaight. piece K. The horizontal wheel MI has 24 tecth, ind is fupported by the piece S, which is fcrensed to the end of the box next Y. On the axis of this whecl place a brafs rod OP, five inclies long; and at the part O place a large bar or horfe fhoe, of a femicircular firm, and about two inches and a half diameter, ftrongly impregnated. 'The fteel rod V, takes at une end the teeth of the quadrant $G$, by the pinion $F$, and at the other end the wheel M, by the perpendicular wheel N , of $3=$ tecth ; the t:\%o ends of this rod are fupported by the two ftands that hold the other pieces. Under the piece K, that joins to the quadrant, mult be placed the fpring R, by which it is raifed, and pufhes up the cylinder that goes through the ftand C into the egg. You muft alfo have fix fmall cafes as $\mathrm{Y}, \mathrm{Y}, \mathrm{Y}, \mathrm{Y}, \mathrm{Y}, \mathrm{Y}$. Thefe mutt be of the fame circumference with the cylinder in the ftand, and round at their extremities; their length muft be difierent, that when they are placed in the egg, and the lower end enters the hole in which is the cylinder, they may thruft it down more or lefs, when the tup of the egg againft which they prefs, is fafened doun; and thercby lower the bar that is fixed to the end of the quadrant, and confequently by means of the pinion $Z$ and wheels NM turn the horfe fhoe that is placed upon the axis of the laft whoel. The exact length of thefe cafes can be determined by trials only ; but thefe trials may be made with round pieces of wood. In each of thefe cafes place a different queltion, written on a flip of paper and rolled up, and in each of the vafes put the anfiver to one of the queftions; as you will know, by trials, where the magnctic bar or horfe fhoe will ftop. Laftly, Provide a Imall figure of a fwan, of cork or enamel, in which fix a touched needle, of the largeft fize of thofe .ommonly ufed in fewing.

Being thus prepared, offer a perfon the $f \times$ c:afes, and defire him to choofe any one of them, and conce.al the refl, or give them to different perfons. IHe is then to open his cafe, read the queftion to himfelf, and return the cafe, after replacing the queltion. Yen then put

Mechanic the cafe in the egg, and placing the fwan in the bafon
Nerea- on the water, you tell the company fhe will foon difco-
 ver in which of the vafes the anfiver is contained. The fame experiment may be repeated with all the cafes.

## Sict. XI. Rocrations and Contrivances relating to MECHANICS.

In the article Mechanics, we have defcribed forse of the lighter experiments by which the principles of that fcience are illuftrated, and have explained the conftruction and action of feveral ingenious and ufeful machines. In particular, we have defcribed the windmill at $\mathrm{N}^{0} 428$. ; feveral carriages that are capable of moving without horfes, at Nos. 455, 456, 457, and 458.; a carriage that cannot be overturned, at $N^{\circ} 459 . ;$ Atwood's machine for illuftrating the doctrines of accelerated and retarded motion, at $\mathrm{N}^{0} 460$. ; a machine for illuftrating the theory of the wedge, at 467. ; a machine for illultzating the effects of the centrifugal force in flaltening the poles of the earth, at 468 . ; a machine for trying the frength of materials, at $469 . ;$ a machine in which all the mechanical powers are united, 470.; Fiddler's balance at $47^{1 .}$; an improvement in the balance, 472. ; a machine for fhewing the compofition of forces, at 473.; Smeaton's machine for experiments on windmill fails, at 474.; Smeaton's machine for experiments on rotatory motion, at 475. ; Prony's condenfer of forces, at 476. ; a portable flone crane for loading and unloading carts, with feveral other cranes, at $477,47^{3}, 479,482$, and 482 ; Bramali's jib for cranes, at 48 I .; the common worm.jack, at 483. ; a portable loading and unloading machine at 484. ; Vanlone's pile engine at 485 . and Bunce's pile engine at 486. We have alfo, in the articles Androides and Automiton, defcribed feveral ingenious contrivances for producing various animal motions by means of machinery, or what is commonly called clock-work, efpecially M. Vaucanfon's flute-player, and M. Kempell's chefs player.

In the prefent article we fhall firft prefent our readers with a few mechanical contrivances that may properly be called amufing; fhall give the fubftance of an ingenious paper on the philofophical ufcs of a common watch; and thall conclude the fection with an account of Edgeworth's Panorganon, or univerfal machine for illuftrating the effect of the mechanical powers.

## To Jupport a pail of water by a Rlick, only one half of which, or lefs, refls on the cdge of a table.

Let $A B$ (fig. 51.) be the top of the table, and $C D$ the ftick that is to fupport the bucket. Convey the bandle of the bucket over this ftick, in fuch a manner, that it may reft on it in an inclined pofition, as IH, and let the middle of the bucket be a little within the edge of the table. That the whole apparatus may be fixed in this fituation, place another flick as GFE, with one end, G, reftin's agai: $f$ the fide of the bucket at the bottom, while its middle $F$, refts againf the oppofite edge of the bucket at the top, and its other extremity E, refts againft the firft flick CD, in which a notch fhould be cut to retain it. By thefe means the bucket will remain fised in that fituation, without inclining to either fide; and if not already full of water, it may be filled
with lafety, for its centre of gravity being in the vertical line pafling through the point $H$, which mots with the table, it is evident that the pail is in the fouse circumflances as if it werc fulpended from that point of the table whore the vertical line would meet the edge. It is alfo evident that the lick cannot flide along the table, nor move on its edge, without raifing the centre of gravity of the bucket, and of the water wbich it contains. The heavier it is, therefore, the more itable will be its polition.

According to this principle, various other tricks of the fame kind, which are generally propofed in books on mechanics, may be performed. For example, provide a bent hook DGF, as feen at the oppofite end of the fame figure, and infert the part, FD, in the pipe of a key at 1 , which mult be placed on the edge of a table; from the lower part of the hook fufpend a weight $G$, and difpofe the whole in fuch a manner that the vertical line GD may be a little within the edge of the table. When this arrangement has been made, the weight will not fall; and the cafe will be the fame with the key, which, had it been placed alone in that fituation, would perhaps have fallen; and this refolves the following mechanical problem, propofed in the form of a paradox : A body having a tendency to fall by its own weight, how to prevent it from falling, by adding to it a weiglit on the farme fide on which it tends to fall.

## To confruct a figure which, without any counterpoife,乃ball always raife itfelf upright, and preferve or regain that poffition, however it may bo diflurbed.

Let a figure, refembling a man, ape, \&ic. be formed of fome very light fubflance, fuch as the pith of elder, which is foft, aud can eafily be cut into any required figure. Then provide a hemifpherical bafe of fome very heavy fubftance, fuch as lead. The half of a leaden bullet made very fmooth on the convex part will be very proper for this purpofe. If now the figure be cemented to the plain part of this hemifphere ; in whatever pofition it may be placed it will rife upright as foon as it is left to itfelf; for the centre of gravity of its hemifpherical bafe being in the axis, tends to approach the horizontal plain as much as poffible. This it cannot attain till the axis becomes perpendicular to the horizon ; but as the fmall figure, on account of the difipoportion between its weight and that of the bafe, fcarcely deranges the latter from its place, the natural perpendicularity of the axis is eafily regained in all pofttions.

According to this principle were conflucted the fmall figures called Pruffians, which fome years ago conflituted one of the amufements of young people. They were formed into battalions, and being made to fall down by drawing a rod over them, immediately ftarted up again as foon as it was removed. On the fame principle fcreens have been conftructed, fo as to rife of themfelves when they happen to be thrown down.

To make a body afcend along an inclined plane in confequence of its oun gravity.

Let a body be conftructed of wood, ivory, or fome Fig. $5_{2}$. fuch matcsial, confilling of tho equal right cones united

## AMUSEMENTS OF SCIENCE.

Mechanic by their bafes, as EF (fig. 52.); and let two ftraight, Recrea- flat, fmooth rulers, as
tions.
$\mathrm{AB}, \mathrm{CD}$, be fo placed as to join $\underbrace{\text { Rens. }}$
Fig. 52.

45
Philofophical uies of a common watch, in an angle at the extremities $\mathrm{A}, \mathrm{C}$, and diverge towards B, D, where they muft be a little elevated, fo that their edges may form a gently inclined plane. If now the double cone bc placcd on the inclining edges, pretty near the angle, it will roll fowards the elevated ends of the rulers, and thus appear to afcend; for the parts of the cone that reft on the rulers growing fmaller as they go over a larger opening, and thus letting down the larger part of the body, the centre of gravity defcends, though the whole body feems to rife along the inclined plane.

To infure the fuccefs of this experiment, care muft be taken that the height of the elevated ends of the rulers be lefs than the radius of the circle forming the bafe of the cones.

## Explanation of the upright Pofition preferved by a Top or Tee-totum while it is revolving.

This is explained on the principle of centrifugal force, which teaches us that a body cannot move in a circular direction without making an effort to fly off from the centre; fo if it be confined by a ftring made faft in that centre, it will ftretch the ftring in proportion as the circular motion is more rapid. See DyNamics. It is this centrifugal force of the parts of the top or tee-totum that preferves it in an upright pofition. The inftrument being in motion, all its parts tend to fly off from the axis, and that with greater force the more rapid the revolution. Hence it follows, that thefe parts are like fo many powers acting in a direction perpendicular to the axis. As, however, they are all equal, and pafs rapidly round by the rotation, the inftrument muft be in equilibrio on its point of fupport, or the extremity of the axis on which it turns. The motion is gradually impeded by the friction of the axis againtt the furface on which it moves; and we find that the inftrument revolves for a longer time, in proportion as this friction is avoided by rendering very fmooth the furfaces of the axis, and the plane on which it moves.

There are many obfervations and experiments in different departments of fcience, the accuracy of which depends greatly, and in fome cafes entirely, on the accurate meafurement of minute portions of time; fuch, for inflance, as the determination of the velocity of found, the nature of the defcent of falling bodies, the meafure of the fun's diameter, the diftance of two contiguous, or at leaft apparently contiguous, heavenly bodies taken at their paffage over the meridian, and the diftance of places from the difference of the velocity of light and found. A pendulum for fwinging feconds has ufually been employed for thefe and fimilar purpofec, and in an obfervatory is found to be very convenient; but a watch, by being more portable, is calculated to be more general in its application, and will meafure fmaller portions of time than any other inftrument that has been invented. Befides, it poffeffes this peculiar advantage, that in all Gtuations its beats may be counted by the ear, at the fame time that the object of obfervation is viewed by the eye, fo that no lofs is incurred, as muft inevitably hanpen, when the eye is ufed to view both the object and pendulum in fucceffion, fhould this latter be ever fo quick. But it will be objected here, that few

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watches meafure time accurately, and that, from the different conftructions of watches, the times correlponding to their beats vary in a very confiderable degree. We allow thefe objections to be true, and conceive that to them the reafon may be attributed, why the beat of a watch is not generally applied as the meature of the lowell denomination of fibbdivilions of time. We flall therefore endeavour to obviate thefe objections, by fuewing how any tolerably good watch, whatever be its conftruction, may be applied with advantage to many philofophical purpofes.

We muft, in the firft place, confider, that the portions of time which we propofe to meafure by a watch are fmall, and thofe to be counted not by a fecond-hand, as is the cuftom with nedical men, but altogether by the beats; in which cafe, if the watch be not liable to lofe or gain time confiderably in a day, the crror in the rate of going will be extremely minute in the time correfponding to any number of beats that the memory can retain, or that the purpofes to which we propofe the application to be made will require ; and even if the error in the rate of going be confiderable, fo as to amount to feveral minutes in a day, as it is uniform, it may eafily be allowed for by a correction. Thus, if the error were five minutes per day, the allowance would be upwards of $\frac{\pi}{3} \sigma$ part. Hence the firft objection, which relates to the error occafioned by the rate of going of any watch, will conftitute no real obftacle to its application in the afcertaining of fmall portions of time, provided a fudden change of temperature be avoided at the time of ufing it ; for it will be neceffary that the rate of going be eftimated when the temperature is the fame, as when the watch is ufed for philofophical purpofes; fo that if it is ufually worn in the pocket, it may be held in the hand to the ear, but if it be hanging in a room or in the open air where the rate of going is afcertained, it muft be hung near the ear, under fimilar circumftances, where any obfervation is intended to be made by it.

As to the other objection, which applies to the variation in the lengths of the beats of two different watches, owing to the difference of their conftructions, though they indicate hours and minutes alike, it may be very readily removed. All common watches have the fame number of wheels and pinions, which are known by the fame names, and placed, no matter how varioufly, fo as to act together without interruption; but all watches have not their correfponding wheels and pinions divided into the fame number of teeth and fpaces; and from this circumitance the beats of different watches differ from each other. As the rate of going of a watch is regulated by the lengthening or fhortening of a fpring, without any regard being had to the numbers which compofe the teeth of the wheels and pinions, a great latitude is allowable in the calculation of thofe numbers; of which the different makers avail themfelves according as the numbers on the engines they ufe for cutting the teeth require; but whatever the numbers may be of which the wheel-work confifts, if we divide double the product of all the wheels, from the centre wheel to the crown wheel inclufively, by the product of all the pinions with which they act, the quotient will invariably be the number of beats of the watch in queltion in one hour ; and again, if we divide this quotient by 3600 , the number of feconds in an hour, this latter quotient

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Recr:ations.
be carried to any number of places in decimals, and be copicd upon the watch-paper for infpection whenever it
may be iranted.

When any particular watch is cleaned, the worknam may be directed to count, and return in writing, the numbers of the centre wheel, the third wheel, the contrate wheel, and the crown (balance) wheel, and alfo of the three pinions which they actuate, refocitively, from which the calculation of the length of a beat is eaGily made by the rule juft given, and wher once made, will apply in all inflances where that individual watch is ufed. It may be remarked here, that no notice is taken of the wheels and pinions which constitute the dial work, or of the great wheel and pinion with which it aets; the ufe of the former of thefe is only to make the hour and minute hands revolve in their refpective times, and may or may not be the fame in all watches; and the ufe of the latter, the great wheel and its pinion, is to determine, in conjunction with the number of fipirals on the fufee, the number of hours that the watch thall continue to go, at one winding up of the clain round the barrel of the mainfpring. All theie wheels and pinions, thesefore, it will be perceived, are unneceflary to be taken into the account in calculating the beats per hour. The reafon why double the product of the wheels fpecifed is taken in the calculation is, that one tooth of the crown wheel completely efcapes the palats at every tivo beats or vibrations of the balance.

A few examples of the numbers exhibited io the *heels of fome common watches wiil render the general rule which we have laid down more intelligible. We fhall take four examples, the firf expreffing the numbers of a common watch, as given by Mr Emmerfon. In this watch the centre wheel contained 54 teeth, its pinion 6 teeth; the third wheel 48 teeth, its pinion 6 ; the contrate wheel 48 teeth, and its pinion 6; the crown wheel 15 teeth, befides 2 palats. Now, we liave $54 \times 48 \times 48 \times 15 \times 2=3732480$ for double the produet of the fpecinied wheeis, and $6 \times 6 \times 6=216$ for the product of the fpecifed pinions; alfo $\frac{3732480}{216}=$ ${ }_{17} 7280$ are the number of beats in an hour: accordingly Mr Emerfon fays that this wateh makes about 4.75 beats in a fecond. The number of fpirals on the fufee is 7 ; therefore, $7 \times \frac{4^{8}}{12}=28$, the number of hours that the watch will go at one winding up: likewife the dial work $\frac{40}{10} \times \frac{36}{12}=\frac{1440}{120}=12$ fhews that whiln the firt driving pinion of 10 goes 12 times round, the laft wheel of 36 goes only once; whence the angular velocity of two hands carried by their hollow axles are to each other as 12 to 1 .

In a fecond example the numbers in the calculation of beats per fecond will be as follows, $60 \times 60 \times 60 \times$ ${ }_{3} 3 \times 2=5616000=$ double the product of the wheels, and $8 \times 8 \times 6=3^{8} 4$, the product of the pinions; then $\frac{5616000}{3^{84}}=14625=$ the number of beats in an hour, and $\frac{14625}{3600}=4.0625$, the number of beats per fecond.

In a third watch the numbers require the following calculation $54 \times 5^{2} \times 5^{2} \times 1_{3} \times 2=3796416$, for dou-
ble the product of the wheels, and $6 \times 6 \times 6=216$, the Ne. $12 n \mathrm{se}$ product of the pinions: therefore $\frac{3796416}{216}=17576, \underbrace{\text { Recics- }}$ the beats in an hour, and $\frac{17576}{3600}=4.892$, beats per fecond.

In a fourth, $56 \times 51 \times 50 \times 13 \times 2=3712800$, dou. ble the product of the wheels, and $6 \times 6 \times 6=216$, the product of the pinions, confequently $\frac{3712800}{216}$ gives ${ }_{17} 189$ beats in an hour, which, divided by $36=0$, gives $4.777^{6}$ for the beats per fecond.

1t remains now to adduce an example or two of the niocie of applying the beats of a watch to philofophical purpofes.

For cne example let us fuppofe with Dr Herfchel, that the annual parallax of the fixcuiftars may be a!ceitained by oblerving how the angle between two flats very near to each other, varies in oppofite parts of the year. For the purpofe of determining an angle of this kind, where an accurate micrometer is watiting, let a telefcope that has crofs wires be dirccted to the flars when paffing the meridian, in fuch a manner that tie upright wire may be perpendicular to the horizon, and let it remaiu unmoved as foon as the former of the tho ftars is juft coming into the field of view; then fixing the eye to the telefcope and the watch to the ear, repeat the word one along with every beat of the watch before the fiar is arrived at the perpendicular hair, until it is in conjunction with it, from which beat go on troo, threc, four, \&゙c. putting down a finger of eitlicr band at every twenty till the fecond flar is feen in the fame fituation that the leading one occupied at the commencement of the counting; then, thele beats divided by the beats per.fecond, marlied on the walch-paper will give the exaet number of uncorreated feconcs, $t$, which the folluwing flar $p$ afles later over the meridian than the leading one. When thefe feconds and parts of a fecond are afcertained, we have the fullowing analogy for determining the angle, wich includes allo the correction, namely, -as $25^{\text {h }} 56^{\prime \prime} 4^{\prime \prime}, 008$ (the length of a fidereal rotation of the earth), plus or minus the daily error in the rate of going, are to $360^{\circ}$; fo is the number of obferved feconds of time, to the quantity of the horizontal angle required. The watch is here fuppofed to be regulated to fhew folar time ; but if it fhould be regulated exactly for fidereal time, initead of $23^{\text {b }} 5^{6}$ $4^{\prime \prime} 09^{8}$, we muft ufe exactly ${ }^{2}+$ houls in the analogy.

As a fecord inflance, let it be required to afcertain the difance of the nearer of two electrified clouds from an obferver when there are fucceffive peals of thunder to be heard: a lintle time before the expected repetition of a flafh of lightning place the watch at the ear, and commence the numbering of the beats at the inflant the flath is feen, as before directed, and take care to ceafe with the beginuing of the report. Then the beats converted into feconds, with the proportional part of the daily error added or fubtracted, will give the difference of time taken up by the motion of the light and found. If, laftly, we fuppofe light to be inflantanecus at fmall diflances, the ditance of the nearer cloud will be had by multiplying the diftance that found is known to pafs through in a fecond by the number of obferved fecun:ds obtained from the beats that were counted.

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Many more infances might be pointed out, in which the beats of a good watch would be extremely ferviceable in the practical branches of philofoplyy; but the occurrence of fuch inftances will always point out the propriety of the application, when it is once known and practifed.

We fhall therefore mention only one further advantage which feems peculiar to this mode of counting a limited number of feconds by a watch, namely, that it is free from any error which might arife from the graduatinns of a dial-plate, or unequal divifions in the teeth of wheels and pinions, where the feconds are counted by a hand.

In order to introduce this method of mealuring fmall portions of time accurately, it is defireable that a watch be conftrueted fo as to make an exact number of beats per fecond without a fraction, for then the reduction of beats into feconds would be more readily made. With the view of promoting this object, Mr William Pearfon has calculated numbers for a watch, which will produce the defired effect, and which, es they are equally practicable with thofe in ufe, we thall here infert. By the method of arrangement already given, the numbers proper for fuch a watch, as will indicate hours, minutes, and feconds, by three hands, and allo make juft four beais per fecond, will ftand thus, viz.

50 great wheel
$10-60$ centre wheel
8-64 third wheel
8-48 contrate wheel
6-15 crown wheel
2 palats.
Dial work as ufual.
Six fpirals on the fufee-to go 30 hours.
By the preceding general sule for afcertaining the beats per fecond in any watch, the calculation of thefe numbers will be thus: $60 \times 64 \times 48 \times 15 \times 2=5529600$, and $8 \times 8 \times 6=3^{8} 4$; then $\frac{529600}{3^{8} 4}=14400$ the beats in an hour, and $\frac{{ }^{1}+400}{3600}=\frac{4}{4}$ exactly, for the beats per fecond ; which agreement with the rule is a proof of the accuracy of the numbers.

Before we conclude this fubject, we may caution medical gentlemen againft an impofition which is pract:fed by fome watchmakers in the fale of watches with lecond hands. It is no uncommon thing with fome of thefe workmen to put a fecond hand with a fop and an appropriate face to a watch, the wheel work of which is not calculated for indicating feconds. The fecond watch, the numbers of which are fet down a little above, was of this kind. In this watch that part of the train which lay between the axle of the centre wheel and that of the contrate wheel on which the hands are placed, viz. $\frac{62}{8} \times \frac{60}{8}=$ to only 56.25 , inftead of 60 , fo that $3 \frac{7}{4}$ feconds are deficient in every minnte, a deficiency which in 16 minutes is equal to a whole revolu*Sce Ni- tion of the fecond hand *.
chot. Your. For the purpofe of bringing to our affitance the fenfe 40 , vol. it. of feeling, in teaching the ufe of the mechanic powers,
Enge- Mr E.dgeworth has conftructed the following apparatus, Engeto which he gives the name of panorgnnon.
containing the moving machinery, and a caplan or windlais erefted on a fill or plank that is furk a fetr inches into the ground. By thefe means, and by braces or props, the frame is rendered fteady. 'Ise crofs ral or tranfom is flrengthened by braces, and a king poit to make it lighier and cheaper. The capilan contits of an upright thaft, on which are fixed two druns (about either of which a rope may be wound), and two arns or levers, by which the capflan may be tumed round. There is alfo an iron ferew fixed round the lower part of the fliaft, to fhew the properties of the ferew as a mechanic power. The rope which goes round the drum, paffes over one of the pulleys near the top of the frame, and below another pulley near the botom. As two drums of different fizes are employed, it is neceffary to have an upright roller, for conducting the rope to the pulleys in a proper direction, when either of the drums is ufed. Near the frame, and in the direction in which the rope runs, is made a platform or road of deal boards, one board in breadth and 20 or $3 \circ$ feet long, on which a fmall fledge loaded with different weights may be drawn.

Fig. 53 reprefents the principal parts of this appa-Fig. 53. ratus. FF, the frame; $b, b$, braces to keep the frame fteady; $a, a, a$, angular braces, and a king-poit to ftrengthen the traniom; S , a round taper lhaft, ilrengthened above and below the mortices, through which the levers pafs, with irun hoops; Ld, two arms or levers by which the thaft, \&c. are to be moved round; DD, the drums, which are of different circumferences; $\kappa$, the roller to conduct the rope; P , the pulley, round which the rope paffes to the larger drum ; $\mathrm{P}_{2}$, another pulley to anfwer to the fmaller drum; P 3, a puliey through which the rope paffes when experiments are made with levers, \&ic.; P 4, another pulley through which the rope paffes when the fledge is ufed; Ro , the road of deal boards for the fledge to move on; $\mathrm{S} /$, the fledge with pieces of hard wood attached to it to guide it on the road.

As this machine is to be moved by the force of men Ulies of si., or children, and as this force varies, not only with the panorgaftrength and weights of each individual, but alfo accord- ${ }^{\text {non. }}$ ing to the different manner in which that ftrength or weight is applied, we muit in the firit place eitablilh one determinate mode of applying human force to the machine, as well as a method of determining the relative force of each individual, whole ftrength is emiployed in fetting it in motion.

## 1. To eflimate the force with which a perfin can dra:u horixontally by a ripe over his jboulder.

Hang a common long fcale-beam (without fcales or chains) from the top or tranfom of the frame, fo that one end of it may come within an inch of one fide or poft of the machine. Tie a rope to the look of the fcale beam, where the chains of the fcale are ufually hung, and pafs it through the pulley $\mathrm{P}_{3}$, which is about four feet from the ground ; let the perfon pull this rope from I towards 2 , turning his back to the machine, and pulling the rope over his fhoulder (fig. 58.). As the pulley may be either too high or too Fir. 2 . low to permit the rope to le horizontal, the perfon who pulls it thould be placed 10 or 15 feet from the machine, which will leffen the angular direction of the cord, and thus diminifh the inaccuracy of the experi-

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inechanie ment. Hang weights to the other end of the fcale-Kecrea- beam, till the perfon who pulls can but juft walk for$\underbrace{\text { tions. }}$ ward, pulling fairly without knocking his feet againit any thing. This weight will eftimate the force with which the perfoa can draw horizontally by a rope over his floulder.

Let a child who tries this, walk on the board with dry thoes; let him afterwards chalk his fhoes, and then try it with his fhoes foaped. He will find that he can pull with different degrees of force in thefe different circumftances. When he makes the following experiments, however, let his كhocs be always dry, that he may always exert the fame degree of force.
49 2. To Jiew the force of the three difforent kinds of Levers.
Fig. 54, 55. The lever L (fig. 54.) is paffed through a focket (fig. 55 .) in which it can be flifted from one of its ends towards the other, fo that it may be faftened at any place by the fcrew of the focket. This focket has two gudgeons, upon which both the focket and the lever which it contains can turn. The focket and its gudgeons can be lifted out of the hole in which it plays between the rails RR (fig. 54.), and may be put into other holes at $\mathrm{R}, \mathrm{R}$, (fig. 57 .)

Hook the cord that comes over the perfon's fhoulder to the end I, of the lever L. Loop another rope to the other end of this lever, and let the perfon pull as before. Perhaps it fhould be pointed out that the perfon muft walk in a direction contrary to that in which he walked before, viz. from 1 towards 3. (fig. 53.). The height to which the weight afcends, and the diftance to which the perfon advances, fhould be carefully marked and meafured; and it will be found, that he can raife the weight to the fame height, advancing through the fame face as in the former experiment. In this cafe, as both ends of the lever moved through equal fpaces, the lever only changed the direction of the motion, and added no mechanical power to the direct frength of the perfon.
3. Shift the lever to its extremity in the focket; the

Fig. 56. middle of the lever will now be oppofite to the pulley (fig. 56.) : hook to it the rope that goes through the pulley $P_{3}$, and faften to the other end of the lever the rope by which the perfon is to pull. This will be a lever of the fecond kind, as it is called in books of mechanics; in ufing which, the refflance is placed between the centre of motion or fulcrum and the moving power. He will now raife double the weight that he did in experiment 2. and he will advance through double the 1pace.
4. Shift the lever, and the focket which forms the axis, (without flifuing the lever from the place in which it was in the focket in the laft experinient) to the holes end of the lever E will now be oppofite to the rope, and to the pulley (over which the rope comes from the fcale beam). Hook this rope to it, and hook the rope by which the perfon pulls to the middle of the lever. The effect will now be different from what it was in the laft two experiments; the perfon will advance only half as far, and will raife only half as much weight as before. This is called a lever of the third kind.

The experiments upon levers may be varied at pleafure, increafing or diminithing the mechanical advantage, fo as to balance the power and the refiftance, to

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accuftom the leamers to calculale the relation between Mechanic : the power and the effect in different circumftances, al- Recrea. ways pointing out that whatever excefs there is in the power, or in the refiitance, is always compenfated by the difference of fipace through which the inferior paffes.

The experiments which we have mentioned are. fufficiently fatisfactory to a pupil, as to the immediate relation between the power and the refiflance; but the different fpaces through which the power and the refittance move when one exceeds the other, cannot be obvious, unlefs they pass through nuch larger faces than levers will permit.

## 5. To ßeew the different Space through which the power and refifance move in different circumfances.

Place the fledge on the fartheft end of the wooden Fig. 53road (fig. 53.) ; faften a rope to the fledge, and conduct it through the loweft pulley $\mathrm{P}_{4}$, and through the pulley $\mathrm{P}_{3}$, fo that the perion may be enabled to draw it by the rope paffed over his shoulder. The fledge mult now be loaded, till the perfon can but juft advance with flort fteps fleadily upon the wooden road; this muft be done with care, as there will be but juft room for him befide the rope. He will meet the fledge exactly on the middle of the road, from which be muft ftep afide to pafs the fledge. Let the time of this experiment be noted. It is obvious that the perfon and the fledge move with equal velocity, there is therefore no mechanical advantage obtained by the pulleys. The weight that he can draw will be about half a hundred, if the weight be about nine ftones; but the exact force with which the perfon draws is to be known by experiment firf.
6. To the largeft drum (fig. 53.) faften a cord, and wheel and pafs it through the pulley P downwards, and then axic. through the pulley $\mathrm{P}_{4}$, to the fledge placed at the end Fig. $53 \cdot$ of the wooden road which is farthelt from the machine. Let the perfon, by a rope faftened to the extremity of one of the arms of the capftan, and paffed over his fhoulder, draw the capftan round; he will wind the rope round the drum, and draw the Redge upon the road. To make the fledge advance $2 \downarrow$ feet upon its road, the perfon muft have walked circularly 144 feet, which is fix times as far, and he will be able to draw about three hundred weight, which is fix times as much as in the laft experiment.

It may now be pointed out, that the difference of fpace, paffed through by the power in this experiment, is exactly equal to the difference of weight which the perfon could draw without the capftan.
7. Let the rope be now attached to the fmaller drum ; the perfon will draw nearly twice as much weight upon the fledge as before; and will go through double the fpace.
8. Where there is a number of perfons, let five or fix of them, whofe power of drawing (eftimated as in experiment 1.) amounts to fix times as much as the force of the perfon at the capftan, pull at the end of the rope which was faftened to the flcdge; they will balance the force of the perfon at the capitan: either they or he, by a fudden pull may advance, but if they pull fairly, there will be no advantage on either fide. In this experiment the rope flould pals through the pulley $\mathrm{P}_{3}$, and fhould be coiled round the larger drum. And it muft

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Mechanic alfo be obferved, that in all experiments upon the mo-Recrea- tion of bodies, on which there is much friction, as where tions. a lledge is employed, the refults are never fo uniform as under other circumftances.
The pulley:
9. Upon the pulley we fhall fay little, as it is in every body's hands, and experiments may be tried upon it without any particular apparatus. It fhould, however, be diffinctly inculcated, that the power is not increafed by a fixed pulley. For this purpofe, a wheel without a rim, or, to fpeak with more propriety, a number of fpokes fixed in a nave flould be employed (fig. 61.) Pieces like the heads of crutches thould be fixed at the ends of thefe fpokes, to receive a piece of girthweb, which is ufed inttead of a cord, becaufe a cord would be unfteady; and a ftrap of iron with a hook to it fhould play upon the centre, by which it may fometimes be fufpended, and from which at other times a weight may be hung.
Let this ikeleton of a pulley be hung by the iron ftrap from the tranfom of the frame; fatten a piece of web to one of the radii, and another to the end of the oppofite radius. If two perfons of equal weight pull thefe pieces of girthweb, they will balance each other; or two equal weights hung to thefe webs, will be in equilibrio. If a piece of girthweb be put round the aftermoft radius, two equal weights hung at the ends of it will remain immoveable; but if either of them be pulled, or if a fmall additional weight be added to either, it will defcend, and the web will apply itfelf fucceffively to the afcending radii, and will detach itfelf from thofe which are defeending. If this movement be carefully confidered, it will be perceived that the web in unfolding itfelf, acts in the fame manner upon the radii, as two ropes would, if they were hung to the extremities of the oppofite radii in fucceffion. The two radii which are oppofite, may be confidered as a lever of the firft kind, when the centre is in the middle of the lever; as each end moves through an equal fpace, there is no mechanical advantage. But if this Tkeleton-pulley be employed as a common block or tackle, its motions and properties will be entirely different.
10. Nail a piece of girth-web to a poft, at the diflance of three or four feet from the ground; faften the other end of it to one of the radii (fee fig. 61.). Faften another piece of web to the oppofite radius, and let a perfon bold the fkeleton-pulley fufpended from the web; hook weights to the ftrap that hangs from the centre. The end of the radius to which the fixed girth-web is faftened will remain immoveable; but if the perfon pulls the web which he holds in his hand upwards, he will be able to lift nearly double the weight which he can raife from the ground by a fimple rope without the machine, and he will perceive that his band moves through twice as great a fpace as the weight defcends: he has therefore the mechanical advantage, which he would have by a Sever of the fecond kind. Let a piece of web be put round the under radii, let one end of it be nailed to the poft, and the other be held by the perfon, and it will reprefent the application of a rope to a moveable pulley; if its motion be carefully confidered, it will appear that the radii, as they fucceffively apply themelves to the web, reprefent a feries of levers of the fecond kind.

Upon the wooden road lay down a piece of girthweb; nail one end of it to the road; place the pulley upon the web at the other end of the board, and bring-
ing the web over the radii, let the perfon taking hold of it, draw the loaded Medge faftened to the book at the centre of the pulley; he will draw nearly twice as much in this manner as he could without the pulley.

Here the web lying in the road fhews more dilinetly, that it is quiefcent where the loweft radius touches it ; and if the radii, as they tread upon it, are obferved, their points will appear at reft, while the centre of the pulley will procced as faft as the fledge, and the top of each radius fucceffively will move twice as far as the centre of the pulley and the edge.
If a perfon holding a ftick in his hand, obferves the relative motions of the top and the middle, and the bottom of the ftick, whilit he inclines it, he will fee that the bottom of the flick has only half the motion of the top. This property of the pulley has been confidered more at large, becaufe it elucidates the motion of a wheel rolling upon the ground; and it explains a common paradox, which appears at firt inexplicable, the bottom of a rolling wheel never moves $u p 9 n$ the toad. This is afferted only of a wheel moving over hard ground, which, in fact, may be confidered rather as laying down its circumference upon the road, than as moving upon it.

## 11. The inclined Plane and the Wedge.






















The inclined plane is to be next confidered. When a heavy body is to be raifed, it is often convenient to lay a floping artificial road of planks, upon which it may be pulhed or drawn. This mechanical power, however, is but of little fervice without the affiftance of wheels or rollers; we fhall therefore fpeak of it as it is applied in another manner, under the name of the wedge, which is in fact a moving inclined plane; but if it be required to explain the properties of the inclined plane by the panorganon, the wooden road may be raifed and fet to any inclination required, and the fledge may be drawn upon it as in the former experiments.

Let one end of a lever, N (fig. 59.), with a wheel at Fig. 59* one end of it, be hinged to the polt of the frame, by means of a gudgeon driven or fcrewed into the poft. To prevent this lever from deviating fideways, let a flip of wood be connected with it by a rail, which fhall be part in the lever, but which may move freely in a hole in the rail. The other end of this flip muft be fallened to a ftake driven into the ground at three or four feet from the lever, at one fide of it, and towards the end in which the wheel is fixed (fig. 62.), in the fame manner as the treadle of a common lathe is managed, and as the treadle of a loom is fometimes guided.
12. Under the wheel of this lever place an inclined plane (fig. 59.) on the wooden road, with rollers under it, to prevent friction; faften a rope to the formoft end of the wedge, and pafs it through the pulleys ( $\mathrm{P}_{4}$ and $\mathrm{P}_{3}$ ), as in the fifth experiment; let a perfon draw the fledge by this rope over his fhoulder, and he will find, that as it advances it will raife the weight upwards; the wedge is 5 feet long, and elevated I foot. Now, if the perpendicular afcent of the weight, and the fpace through which he advances, be compared, he will find that the fpace through which he has paffed will be 5 times as great as that through which the weight has afcended; and that this wedge has enabled him to raife 5 times as much as he could raife without it, if his frength were applied as in experiment I. witbout any

Mechanic mechanical adrantage. By making this wedge in two Rccrea- parts hinged together, with a graduated piece to keep tions. them afunder, the wedge may be adjuhted to any given obliquity ; and it xill always be found, that the mechanical advantage of the wedge may be afcertained by comparing its perpendicular elevation with its bafe. If the bafe of the wedge be $2,3,4,5$, or any other number of times greater than its beight, it will enable the perfon to raife refpectively $2,3,4$, or 5 times more weight than he could do in experiment I . by which his power is eftimated.
13. The Screw.

The fcrew is an inclined plane wound round a cylinder : the height of all its revolutions round the cylinder taken together, compared with the fpace through which the power that turns it paffes, is the meafure of its mechanical advantage. Let the lever ufed in the lat experiment be turned in fuch a manner as to reach from its gudgeon to the fhaft of the Panorganon, guided by an attendant lever as before (fig. 60.) Let the wheel reft upon the loweit helix or thread of the fcrew; as the arms of the fhaft are turned round, the wheel will afcend, and carry up the weight which is faftened to the lever. As the fituation of the fcrew prevents the weight from being fufpended exactly from the centre of the fcrew, proper allowance muft be made for this in effimating the force of the fcrew, or determining the mechanical advantage gained by the lever. This can be done by meafuring the perpendicular afcent of the weight, which in all cafes is ufeful, and more expeditious than meafuring the parts of a machine, and eftimating its force by calculation ; becaufe the different diameters of ropes, and other fmall circumftances, are frequently miftaken in ellimates-both methods fhould be employed and their refults compared. The face paffed through by the moving power, and by that which it maves, are infallible data for ellimating the powers of engines.

Two very material fubjects of experiment yet remain for the Panorganon; friction, and wheels of carriages: but perhaps we may be thought to have extended this fection beyond its juft proportion to the reff of the article, in which it is not intended to write a treatife upon feience, but to point out methods of initiating young people in the rudiments of knowledge, and of giving them a diffinct view of thofe principles on which they are founded. No preceptor who has had experience will cavil at the fuperficial knowledge of a boy of 12 or 13 upon thefe fubjects; he will perceive that the general view which we wifh to give, muft tend to form a tafte for literature and inveftigation. The fciolift has learned only to talk-we wifh to teach our pupils to think upon the various objects connected with the prelent article.

The Panorganon may be emphoyed in afcertaining the refiftance of air and water ; the force of different mufcles; and in a great variety of amufing and ufeful experiments. In academies and private families, it may

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Pralical When it has loft its novelty, the fhaft may from time to Educarios, time be taken durw, and a fiwing nay be fufpended iu vol. 11. chap. its place $f$.

Sect. XII. Recreations and Contrivazies reiaing to OPTICS.
In the articles Catoftrics, Dinftrics, Micro. scope and Perspective, we lave defcribed a variety of optical recreations, viz. under Catoptrics, Sect. III. Catoprrical illesions; the appearance of aboundle/s vyfa; a fort fication apparently ot immenfe extent; a furprifing multiplication of cbjects; the optical paradox, by which opaque bodies are feemingly rendered tranfparent ; the magician's mirror ; the per/pective mirror; the action of concave mirrors in inllaning combultiole bodits, and the rcal apparition. Under DiopTRICS, page $24+$ of Vol. VII. optical illyfions; the optical augmentation, optical fultraction; the atternate illufoon; the dioptrical paradox; the camera obfcura; the method of thewing the foots on the lurn's dilk, and magnifying fmall nbjects by means of the fun's rays; the diagonal opera glaf.s; the conftruetion and ules of the magic lantern; the nebulous magic lantern; method of producing the appearance of a pliawtom on a pedeltal placed on the middle of a table; and the magic theatre. Ur.der Microscope, befides fully explaiping the confruction of the feveral kinds of microlcopes, and explaining their ules, we have given an account of a great variety of objects which are feen diltinctly only by means of thefe inftruments; fuch as the microfocopic animalcula; the minute parts of infects; the ftructure of vegetables, \&c. ; and under Perspective, we have defcribed and explained the anamorphofs, an inftrument for drawing in perfpective mechanically, and the camera lucida of $D_{r}$ Wollaiton. Under Oprics, Part III. Chap. 1. we have explained the confluction of the frincipal optical inftruments, as mullipiying glafles, mirrors, improvements on the camera obfura, by Dr Biewfer and Mr Thomfon; microfcopes, telifcoper, and various kinds of apparatus for meafuring the intenfity of light. Under PYRotechix, $\mathrm{N}^{0}{ }_{15}$, we have fhown how artificial fireworks may be imitated by certain optical deceptions.

At prefent we thall only defcribe one or two additional optical recreations, and explain the nature of the optical deception called Phantafinagoria.

## Experimen: 10 fiow the Biue Colour of Shadazes furmed in Day Ligli.

Darken a room in daylight, or towards twilight, fo that only a fmall proportion of light may enter by the Ahuter. Then holding a lighted candle near the oper:ing of the fhutter, calt the fhadow of an object, fuch as 2 !mall ruler, on a white paper. There will in general be feen two fladows, the one blue, and the other orange; the former of which refembles the blue colour of the flay in clear funfline, and is of a greater or lefs intenfity according as the oljec is brought nearer to a focus.

For explanations of the blue colour of the fky, fee Optics, Part II. Sect. 4.

## The Air-drasen Dagger.

An improved variety of the experiment defcribed underCatoptrics, $\mathrm{N}^{0}{ }_{14}$ by the name of the real appa- The surrrition, is thus defcribed by Montucla. Fig. 62. repre- ger. fents a different prsition of the mirror and partition Fig. 62. from that deferibed under Cstortrics, and one better adapted

Optiest Kecrea. tions. Optical rereations.
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adapted for extabi:ng the fact by various objects. ABC is a thin purtition of a room down to the floor, with an apcrture for a good convex lens, turned outwards into the room nearly in a horizontal $A$.action, proper for viewing by the eye of a perfon flanding upright from the floor, or on a fool. D is a large concave misior, fipported at a proper angle, to setlect upwards through the glafs in the partition $B$, inages of objects at E, prefented towards the mirror below. A ftrong light from a lawp, \&c. being directed on the object $E$, and nowhere elie; then to the eye of a fpectator at F , in a darkened room, it is tuly furpriting and admirable to what effect the imayes are reffected up into the air at G .

Exhibitions of the appearance of fectres have fometimes been formed on the principles of this experiment; but the mott itriking deception of this kind is the phanenfmagoria, which fome winters ago formed one of the principal public amulements at Paris and London.

## mantafina-

 goria. was conducted in a fmall theatre, all the lights of wbich were removed, except one hanging lamp, and this could be drawn up, fo that its flame was perfectly enveloped in a cylindrical chisaney, or opaque fhade. In this gloomy and wavering light the curtain was drawn up, and preieited to the fipectators a fort of cave, with fkeletons and other figures of terror, painted or moulded in relievo on the fides or walls. After a fhort interval the lamp was drawn up into its chimney, and the feectators were in total darknefs, interrupted only by fafties of lightaing fucceeded by peals of thunder. Thefe phenomena were followed by the appearance of figures of departed men, ghoifs, fkeletons, tranfmutations, \& ce. Several figures of cel-brated men were thus exhibited with various transformations, fuch as the head of Dr Frankinn, fuddenly converted into a fkull, \&cc. Thele were fucceeded by phantoms, lkeletons, and various terrific figures, which were fometimes feen to contract gradually in all their dimenfions, till they became extremely frall, and then vanihed; while at others, inftead of feeming to recede and then vanifh, they were, to the furprife and aftonifhment of the fpectators, made fudderly to advance, and then difappear, by feeming to $\ddagger$ Wichot. fink into the ground + .The principal part of theefe phenomena was produced by a modification of the magic lantern, having all its parts on a large fcale, and placed on that fide of a femitraniparent fcreen of taffeta which was oppofite to the fpectators, inftead of the fame fide, as in the ordinary exhibitions of the magic lantern. To favour the deception, the fliders were made perfectly opaque, except in thofe places that contained the figures to be exhibited, and in thele light parts the glafs was covered with a more or lefs tranfparent tint, according to the effect required. The figures for thefe purpofes have alfo been drawn with water colours on thin paper, and afterwards vamithed. To imitate the natural motions of the objeets reprefented, feveral pieces of glafs placed behind each other were occafionally employed. By removing the lantern to different diffances, and at the fame time altering more or lefs the pofition of the lens, the images were made to increafe or diminifh, and to become more or lefs diftinet at the pleafure of the exhibiter: fo that, to a perfon unaccuifomed to the effect of optical inftruments, the Ggures appeared actually to whause and re-
tire. In reality, however, figures exhibited in this way become much brighter as they are sendered fimaller, white in nature the imperi:ct tranlparency of the air caufes objects to ap, ear fainter when they are remote, than when they are nearer the obferver. Sometimes, hy throwing a lirong light on an objcet really opaque, or on a living petlon, its image was formed on the curtair, retaining its natural motions; but in this cafe the olject muft have been ai a confiderable diffance, othervife the images of its nearer and remoter parts could never be fufficiently dillinet at once, as the refraction muit either be too great for the remoter, or too limall for the nearer parts; and there muft alio be a fecond lens placed at a fufficient ditance from the firt, to allow the formation of an inverted image betvecu them, and to throw a fecond picture of this image on the licreen in its natural ereit pofition, unlefs the object be of fuch a nature that it can be inverted without incorenience + .
Dr Themas Young propofes the follewing appratus Lect on for an extibition finilar to the phantafmagoria. The light Ant Pbil. of the lamp A (fig. 63 .) is to be thronn by the mirror B tol $\mathrm{i} 4^{26}$. and the lenfes C and D on the painted flider at E , and $\mathrm{F}_{15} \cdot 6$.5the magnifer F forms the image of the foreen at G . This lens is fixed to a fider, which may be diawn out of the general fiupport or box H ; and when the box is drawn back on its wheels, the rod IK lowers the point K , and by means of the rod KL adjufts the flider in fuch a manner, that the image is always dintinctly painted on the fereen G. When the box advances towards the fereen, in order that the images may be diminibied and appear to vanihh, the fupport of the lens F fuffers the fcreen $M$ to fall and intercept a part of the light. The rod KN mult be equal to $I \mathrm{~K}$, and the point I mult be twice the focal length of the lens F, before the object, L being immediately under the focus of the lens. The fcreen MI may have a triangular opening, fo as to uncover the middle of the lens only, or the light may be $\ddagger$ Ibidt. intercepted in any other manner $\ddagger$.

> pl. xxviii.

Mr Ezekiel Walker has lately conftrueted a new optical infrument, calculated for affording entertainment to thofe who derive pleafure from optical illutions. This inftrument is called phantafmafope, aud is io contrived, that a perfon ilanding before it lees a door opened, and a phantom make its appearance, coming towards him, and increafing in magnitude as it approaches, like thofe in the phantafmagoria. When it has advanced about a feet, it appears of the greateft magnitude, and as it retires, becomes gradually contracted in its dimentions, till it re enters the machine, when it totally vanifhes. This phantom appears in the air like a beautiful painting, and has fuch a rich brilliancy of colouring, as to render it unneceffary to darken the room. On the contrary, this aërial picture is feen with rather greater perfection when the room is illuminated. Fig. 64. repreients a fec- Fil ${ }^{2}$. 6 g , tion of this machine, and will explain the principles of its conifruction.

ABCD, a wooien box, 36 inches by 25 , and 22 decp. EF, a concave mirror, 35 inches diancter, $1^{\text {la }}$ cod near the end BD . AC , the other cnd, is divided into two parts at $m$ by an horizontal bar, of which $m$ is a fection. Am a door that opens to the left hand. no a board with a cirenlar opening, 10 inches dianueter, covered with plate gl: fs in that fide next the mirror. GHI a drawer, opencd at the end I, and covered at the top $\mathrm{G} m$ with tin plate. It is reprefented in the fi-

[^20]$\qquad$
$\qquad$
$\qquad$fope.

Optieal Kecreations
gure as drawn out 16 inches, $a b$ a moreable fage, 15 inches by 6 , which flides freely upon the bottom of the drawer by means of a ftrong brals rod $c a . d x$ a partition fixed to the flage $a b$, which is 15 inches long, and reaches nearly to the top of the drawer. $x$ a circular aperture, 3 or 4 inches in diameter, made near the bottom of the partition, and at equal diffances from each end of it. $\approx a$, a fcreen, $7 \frac{1}{2}$ inches high by $4 \frac{5}{2}$, covered with white paper on that fide next the mirror. This fcreen prevents any light, reflected from the end of the drawer, from paffing through the aperture $x$. np, part of the cover, fixed as reprefented in the figure, to prevent the infide of the machine from being feen by the obferver.

When this machine is ufed, take a painting on glafs in tranfparent colours; place it againft the aperture $x$ in the partition on that fide the mirror, and two fhort candles on the other fide, betweon $z a$ and $d x$. The glafs muft be perfectly opaque, except that part upon which the figure is painted ; then the light which is tranfmitted through the painting and falls upon the mirror, is reflected into the air where the phantom is formed; but the phantom is much more beautiful than the painting, as the colouring receives a particular delicacy from the glaffes.

When the painting is in the place reprefented in the figure, the phantom appears without the machine at $y$; but if the flage be drawn out to the end of the drawer GH, the phantom will appear within the machine at $r$, and very fmall. A very pleafing effect is alfo produced from a fmall painting on paper, or a coloured print put into the place of the painting on glafs, with candles on the other fide, near $b$.

Mr Walker has fhown how this inftrument may be employed to exhibit feveral phenomena in the heavens; as, for example, the appearance of Jupiter and bis fatellites, and the colour of Mars and the moon.

To reprefent Jupiter and his fatellites as they appear through a common telefcope, take a piece of paper ffained very black, about 3 inches fquare, near the middie of which cut a hole perfeetly circular, to reprefent the planet, and 4 fmall holes, in a line with the centre of the large one, for the fatellites; but thefe mult be cut out with a fmall punch, as it is difficult to make a circular hole with a fharp-pointed inifrument. After this paper has been pafted on a piece of glafs, roughground on one fide, draw 3 or 4 lines acrofs the planet with a black lead pencil to initate the belts. From this fimple contrivance the machine produces a very beautiful effect. The new moon reprefented in this way is a Atriking refemblance of the real object in the heavens: comets and fixed ftars may alfo be reprefented by the fame method.

The colour of Mars and of the moon, at rifing or fetting, may be imitated by covering the fereen $x a$ with paper flained red, which will reflect a ruddy tint upon the object placed at $x$; and this tint may be increafed or decreafed by only altering the fituations of the candles *.

Sect. XiII. Recreations and Contrivances relating to PaEvilatics.
Is our treatife on Psecemitics. = have related feveral entertainitg expu-inionts, 1.as the principles of that fcience, firch as e.c..... . . , oving the fluidity of the air in $\mathbf{N}^{0} 52$; hel of Lcocos foumbaln
in $\mathrm{N}^{0} 54$; experiments illuftrating the application of Pneumstihydroftatics to air, $\mathbf{N o}^{\circ} 57$, et $\int$ cq. $;$ a great variety of cal experiments with the air purp, $\mathrm{N}^{\circ} 160$; the experi- $\begin{gathered}\text { Reciea- } \\ \text { tions- }\end{gathered}$ ment of the fyphon fountain, $\mathrm{N}^{0} 178$; and experiments $\underbrace{\text { tions-, }}$ on the compreffibility and expanfibility of the air, $\mathrm{N}^{\circ}$ 196, \&c. We have alfo, in that article, explained the conllruction and operation of the principal preumatical engines, fucb as fyringes, fyphons, air pumps, beliows, \&c. The conilruction and u'es of barometers have been explained under Barometer, and under HydroDYNaMics, N ${ }^{\circ}$ 72. Thofe of thermoneters under Chemistry from No 194. to 203; and thofe of common pumps under the article Pump.

As the aecount of the air-gun refersed to PNeuma- a 59 tics, has been omitted in that article, we mult here defcribe the confruction and action of that ingenious inAtrument.

The common air-gun is made of brals, and has two Fig. $\sigma_{5}$, barrels; the infide barrel A, fig. 6 g . which is of a fmall bore, from whence the bullets are exploded; and a larger barrel ECDR on the outfide of it. There is a fyringe S M N P fixed in the butt of the gun, by which the air is injected into the cavity between the two barrels through the valve EP. The ball K is put down into its place in the fmall barrel, with the rammer, as in any other gun. At SL is another valve, which being opened by the trigger O , permits the air to come behind the bullet, fo as to drive it out with great force. If this valve be opened and fhut fuddenly, one charge of condenfed air may be fufficient for feveral difcharges of bullets; but if the whole air be difcharged on a fingle bullet, it will drive it out with a greater force. The difcharge is effected by means of a lock, placed here as in other guns : for the trigger being pulled, the cock will go down and drive the lever O, fig. 65 . which will open the valve, and let in the air upon the bullet K.

The air-gun has received very great improvements Fig. 66. in its conftruction. Fig. 66. is a reprefentation of one now made by feveral inftrument-makers in the metropolis. For fimplicity and perfection it exceeds any hitherto contrived. A is the gun-barrel, with the lock, flock, rammer, and of the fize and weight of a common fowling piece. Under the lock, at $b$, is a fteel tube having a fmall moveable pin in the infide, which is pufhed out when the trigger $a$ is pulled, by the fpring-work within the lock; to this tube $b$, is fcrewed a hollow copper ball $c$, fo as to be perfectly air tight. This copper ball is fully charged with condenfed air by the fyringe B, fig. 67. previous to its be- Fig. $67 \%$ ing applied to the tube $b$ of fig. 66. It is evident, that if a bullet be rammed down in the barrel, the copper ball fcrewed faft at $b$, and the trigger $a$ be pulled, that the $\operatorname{pin}$ in $b$ will, by the action of the fpring-work within the lock, furcibly ftrike out into the copper ball; and thereby puhhing in fuddenly a valve within the copper ball, let out a portion of the condenfed air, which will rutl: up through the aperture of the lock, and forcibly act agairft the tullet, driving it to the diftance of 60 or 70 yards, or farther. It the air be ftrong'y condenfed, at etcry dffharge, only a portion o: it elcapes from the ball, therefore by re-cocking the fíce another dicharge may be mabic ; and this rejeted 1 ; or 15 times.

The is in the copper ball is condunfud by means of

# AMUSEMENTS OF SGIENCE. 

Posumati- the fyringe B (iig. 67 .) , in the following manner. Cal Recreatiuns. The ball $c$ is ferewed quite clofe in the top of the fyringe at $b$, at the end of the fteel pointed rod; $a$ is a flout ring through which pafies the rod $k$ : upon this rod the feet are commonly placed, then the hands are to be applied to the two handles $i i$, fixed on the fide of the barrel of the fyringe. Now by moring the barrel $B$ fteadily up and down on the rod $a$, the ball $c$ will become charged with condenfed air; and it may be eafily known when the ball is as full as poflible, by the irrefiftible action which the air makes againtt the pifton while working the fyringe. At the end of the rod $k$ is ufually a fquare hole, which with the rod ferves as a key to make the ball $c$ faft on the ferew $b$ of the gun and fyringe clofe to the orifice in the ball $c$. In the iafide is fixed a valve and fpring, which gives way for the admilion of air ; but upon its emiffion comes clofe up to the orifice, fhutting up the internal air. The pifton rod works air-tight, by a collar of leather on it on the barrel B ; it is therefore plain, that when the barrel is drawn up, the air will rufh in at the hole $b$. When the barrel is pufhed down, the air contained in it will have noother way to pafs, from the preflare of the pilton, but into the ball $c$ at top. The barrel being drawn up, the operation is repeated, until the condenfation is fo ftrong as to refirt the action of the pifton.

The magazine air-gun was invented by that ingenious artif L. Colbe. By this contrivance io bullets are fo lodged in a cavity, near the place of difcharge, that they may be drawn into the fhooting barrel, and fucceffively difcharged fo faft as to be nearly of the fame ufe as fo many different guns.
Fig. 65. Fig. 68. reprefents the prefent form of this machine, where part of the flock is cut off, to the end of the injecting fyringe. It has its valve opening into the carity between the barrels as before. K K is the fmall fhooting barrel, that receives the bullets from the magazine E D, which is of a ferpentine form, and clofed at the end D when the bullets are lodged in it. The circular part a $b c$, is the key of a cock, having a cylindrical hole through $i t, i k$, which is equal to the bore of the fame barrel, and makes a part of it in the prefent fituation. When the lock is taken off, the feveral parts $\mathrm{Q}, \mathrm{R}, \mathrm{T}, \mathrm{W}, \& c$. come into view, by which means the difcharge is made by pufing up the pin $\mathrm{P}_{P}$, which raifes and opens a valve V to let in the air againft the bullet I, from the cavity F F, which valve is immediately fhut down again by means of a long fpring of brafs N N. This value V being a conical piece of brafs, ground very true in the part which receives it, will of itfelf be futficient to confine the air.

To make a difcharge, the trigger Z Z is to be pul1 cd , which throws up the feer $y a$, and d : fengages it from the notch $a$, on which the frong firing IV WV moves the tumbler $F$, to which the cock is fixed. This, by its end $u$, bears down the end $v$ of the tumbing lever K , which, by the other end $m$, ra.fes at the fame time the flat end of the borizontal levcr $O$; and by this mear s, of courfe, the pin $\mathrm{P} p$, which flands up n it, is puffed up, and thus opens the valve V , and difcharges the bullet. This is all evident, merely from the view of the figure.

To bring another tuillet to fucceed that maked I, inftantaneounty turn the cylindric cavity of the key of the cock, which before made part of the bartel k K ,

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into the fituation $i k$, fo that the part $i$ may be at K ; and hold the gun upon your fhoulder, with the barrel downwards and the magazine upwards, by which means that bullet next the cock will fall into it out of the magazine, but go no farther into this cylindric cavity than the two little fprings $\int s$ which detain it. The two circles reprefent the cock barrel, wherein the key formerly mentioned turns upon an axis not reprefented here, but vifible in fig. 69. This axis is a fquare piece of Ateel, on which comes the fquare hole of the hammer H , fig. 7 O . by whicb the cylindrical cavity mentioned is opened to the magazine. Then opening the hammer, as in that figure, the bullet is brought into its proper place near the difcharge valve, and the cylindric cavity of the key of the cock again makes a part of the inward barrel K K .
It appears how expeditious a method this is of charg. ing and difcharging a gun; and were the force of condenfed air equal to that of gun-porsder, fuch an air-gun would anfiver the purpofe of feveral guns.
In the air gun, and all other cales where the air is required to be condenfed to a very great degree, it will be requifite to have the fyringe of a fmall bore, viz. not exceeding half an inch in diameter, becaufe the preffure againft every fquare inch is about 15 pounds, and therefore againft every circular inch about 12 pounds. If, therefore, the fyringe be one inch in diameter, when one atmofphere is injected, there will be a refiltarice of 12 pounds againft the pilton; and when 10 are injected, there will be a force of 120 pounds to be over come; whereas 10 atmofpheres act againt the circular half-inch pilton with only a force equal to 30 pounds; or 40 atmofpheres may be injected with łuch a fyringe, as well as 10 with the other. In fhort, the facility of working will be inverfely as the fquares of the diameter of the fyringe.
It is not certain when, or by whom the air-gun was invented. Montucla alcribes the invention to Otto Guerricke, burgomafter of Magdeburg, fo celcbrated about the middle of the $5_{7}$ th century for his pneumatic and electrical experiments; but it is certain that airguns, or wind-guns, as they were fometimes called, were known long before the time of Guerricke. In the Elemens d'Arrillerie of David Rivant, prcceptor to Louis XIII. of France, this inftrument is, we believe, firlt noticed in writing; and here the invention is attributed to one Marin, a burgher of Lifieux, who prefented an air.gun to Henry 1V. The air-gun is now confidered rather as a curious philofophical inftrument, than a ufeful offenfive or defenfive weapon; and its wie in the latter capacity is, we believe, forkidden by law.

The fubject of ballooris has been fully difcufied under the article Aerostation. For the fake of expe-Eafy mrriment, fire balloons, or Mongolfiers, of a moderaic fize, thad nif cormav be conflructed, by pafting together gores of lun if ualang pap-r moeting at the top, and having their other cxtre-baliow: mities pafled round a light and flender hoop, from which proced fevral wires cerminating in a kind of bakket, cap. ble of fup orting a fponge dipped in rectified fpizit of wine. If the gores are properly formed and neatly joined, the balloon will be fo far air-tight, that the cxporded air vithin it, caufed ty the inflammation of the fpirit, will inflate the cavity, and em ble the balloon to rife to a conf.dcrable leight in the atnofphere. It is obvious that fuchan eepe imentican be made only in calm weather.

SCILLA,

Fig. 6n.
$\mathrm{F}_{3}$. I

## S C I [ 570 ] S C I

SCILLA, the Sguile; a genus of plants, belonging to the hexandria clafs; and in the natural method ranking under the roth order, Coronarie. See Botayy and Materia Mlidica Index.

SCILLY, or Sulley, a clufter of fmall iflands and rocks, fituated in the Atlantic ocean, and about 10 leagues W. of the Land's End in Cornwall, in W. Long. $7^{\circ}$. N. Lat. $50^{\circ}$.

Chele iflands were firft called Cafiterides, or the Tin llier, from their being rich in that metal. The common opinion is, that this is a Greek appellation; which in the moft obvious fenfe is true: But as the Phenicians were familiar with the metal, and with the country that produced it, before the Greeks knew any thing of either, it is very likely they introduced the names of both from their own language. Strabo fays thefe illands were ten in number, lying clofe totether, of which only one was unimhabited : the people led an erratic life, lived upon the produce of their cattle, wore an under-garment which reached down to their ankles, and over that another, both of the fame colour, which was black, girt round a little below the breaft with a girdle, and walked with flaves in their hands. The riches of thefe illands were tin and lead, which, with the fkins of their cattle, they exchanged with foreign merchants, that is, the Phoenicians from Cadiz, for earthen ware, falt, and utenfils made of brafs. An author of as great or greater antiquity, feems to include a part at leaft of Cornwall amongit thefe iflands; or rather he fuggefts, that they were not perfect illands except at full fea, but that at ebb the inhabitants paffed from one to another upon the fands, and that they even tranfported their tin in large fquare blocks upon carriages from one illand to another. He farther takes notice, that fuch as inhabited about Belerium (the Land's End) were in their converfation with frangers remarkably civil and courteous. Other ancient writers fyle thefe illands $H_{c / p e r i d e s, ~ f r o m ~ t h e i r ~}^{\text {a }}$ weftern fituation, and Oefrymnides, afferting that the land was cxtremely fertile, as well as full of mines; and that the people, though very brave, were entirely addicted to commerce, and boldly paffed the feas in their leather boats.
The Romans were exceedingly defirous of having a flare in this commerce, which the Phouicians as carefully laboured to prevent, by concealing their navigation to thefe iflands as much as it was in their power. At length, however, the Romans prevailed; and Publius Craffus coming thither, was fo well pleafed with the induftry and manners of the people, that he taught them various improvements, as well in working their mines, which till that time were but failow, as in carrying their own merchandife to different markets. There is no room to doubt that they followed the fate of the reft of Britain, and particularly of Cornwall, in becoming fubject to the Roman empire. We find them called in the Itinerary of Antoninus, Sigdeles; by Sulpitius, Sillence; and by Solinus they are termed Silures. All we know of them during this period is, that their tin trade continued, and that fometimes flate-prifoners were exiled, or, to ufe the Roman phrafe, relegated hither as well as to other iflands.

When the legions were withdrawn, and Britain with its dependencies left in the power of the natives, there is no reafon to queftion that thefe iflands flared the
fame lot with the ref. As to the appellation which from this period prevailed, the ordinary way of writing it is Scilly: in records we commonly find it feelt Silly, Silley, or Sulley; but we are told the old Britifh appellation was Sullich, or Sylleh, which fignifies rocks confecrated to the fun. We have not the leaft notice of any thing that regards them from the fifth to the tenth century. It is, however, with much appearance of truth conjectured, that fome time within this fpace they were in a great meafure deftroyed by an earthquake, attended wihh a finking of the earth, by which moft of their lowlands, and of courfe the greateft part of their improvements, were covered by the fea, and thofe rich mines of tin which had rendered them fo famous fwallowed up in the deep. They have a tradition in Cornwall, that a very extenfive tract of country called the Lionefs, in the old Cornifh Lethofow, fuppofed to lie between that country and Scilly, was loft in that manner; and there are many concurrent circumftances which render this probable. In reference to thefe iflands, the cafe is ffill ftronger ; for at low ebbs their ftone inclofures are ftill vifible from almoof all the inles, and thereby afford an ocular demonftration that they were formerly of far greater extent, and that in remoter ages their inhabitants muft have been very numerous, and at the fame time very induffrious. This fufficiently proves the fact, that by fuch an earthquake they were deftroyed; and that it happened at fome period of time within thofe limits that have been affigned, appears from our heasing nothing more of their tin trade, and from our having no notice of it at all in any of our ancient chronicles, which, if it had fallen out later, from their known attention to extraordinary events, muft certainly have happened.

It is generally fuppofed, and with great appearance of truth, that King Athelitan, after having overcome a very powerful confederaey formed againft him, and having reduced Exeter, and driven the Britons beyond the river Tamar, which he made the boundary of their Cornifh dominions, paffed over into thefe illands, (then furely in a better ftate than now, or they would not have been objects of his vengeance), and reduced them likewife. Hitory does not inform us, that the Danes ever fixed themfelves in thefe iflands; but as their mathod of fortifying is very well known, it has been conjectured that the Giant's Caftle in the ifle of St Mary was erected by them ; and indeed, if we confider the convenient fituation of thefe illands, and the trade of piracy which that nation carried on, there feems to be nothing improbable in that conjecture. It is more certain that there were churches erected in thefe ifles, and that there were in them alfo many monks and hermits, before the conqueft.

The fertility of the iflands is much infifted upon in all the accounts; and it is exprefsly faid of St Mary's, that it bears exceeding good corn, infomuch that if men did but caft corn where fwine had rooted, it would come up. There is mention made of a breed of wild fixine, and the inhabitants had great plenty of fowl and fifl. But notwithflanding the fertility of the country, and the many commodities that men had or might have there, it was neverthelefs but thinly peopled; and the reafon affigned is, becaufe they were liable to be frequently fpoiled by French or Spanifh

Scilly. pirates. In Leland's time, one Mr Davers of Wilthhire, and Mr Whittington of Gloucefterihire, were proprietors of Scilly, and drew from thence, in rents and commodifies, about 40 marks a-yeăr.

The inhabitants at that juncture, and long before, appear to have carried on a fall trade in dried ikate and other fifth to Bretagne, with which they purchased fat, canvas, and other ncceffaries. This lems to be the remains of a very old kind of commerce, line, for many ages, the people of that country, thole of the Scilly ines, and the people of Cornwall, looked upon themfelves as countrymen, being in truth no other than remnants of the ancient Britons, who, when driven out by the Saxons, took refuge in thole illands, and in that part of France which had before been called Armorica, and from hence fled Bretagne, Brittany, or Lille Britain, and the people Bretons. This, in all probability, was a great relief to thole who dwelt in tho fe ills; who, during the long civil war between the hones of York and Lancalter, had their intercourfe with England fo much interrupted, that if it had not been for this commerce with their neighbours on the French colt, they might have been driven to the taft diftrefs.

The Scilly or Silly illands, lie due weft from the Lizard about ${ }_{7} 7$ leagues; weft and by forth from the old Land's End, next Mount's Bay, at the difance of 10 leagues ; and from the weftern Land's End, they lie weft-fouth-weft, at the diftance of fomething more than nine leagues. There are five of them inhabited; and that called Samson has one family in it. The larget of thee is St Mary's, which lies in the north latitude of 49 degrees 55 minutes, and in the longitude of 6 degrees 40 minutes welt from Greenwich. It is two miles and a half in length, about one and a half in breadth, and between nine and ten miles in compafs. On the weft fine there projects an ifthmus. Beyond this there is a peninfula, which is very high ; and upon which flans Star Cattle, built in 1593 , with forme outworks and batteries. On thee there are upwards of threefcore pieces of cannon mounted; and for the defence of which there is a garrifon of an entire commany, with a matter-gunner and fix other gunners. In the magazine there are arms for 300 iflanders, who, when fummoned, are bound to march into the fortrefs. Underneath the caftle barracks and lines flands Hugh Town, very improperly built, as lying fo low as to be fubject to inundations. A mile within land stands Church Town, fo denominated from their place of wotflip; it confifts of a few houfes only, with a court hoyle. About two furlongs aft of this lies the Old Town, where there are more houfes, and forme of them very convenient dwellings. The number of inhabitants in this inland is about 600 or 700 ; and it produces to the lord proprietor 3001 . per annum.

Trefcaw lies directly north from St Mary's, at the diftance of two miles. It was formerly fled St Nicholas's island; and was at least as large as St Mary's, though at prefent about half the fize. The remains of the abbey are yet vifible, the fituation well choler, with a fine baton of fret water before it, half a mile long and a furlong wide, with an evergreen bank high enough to keep out the fca, and ferving at once to preferve the pond, and shelter the abbey. In this pond there are mont excellent eels, and the lands lying
round it are by far the belt in thole iilands. There are about half a fore tone boules, with a church, which
































































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which, when the fea is very low, they fometimes pafs over the fand. It is very mountainous, abounds with fea and land fow!s, excellent famphire, and a great variety of medicinal herbs. There are at prefent thirteen families, who have a pretty church, and pay 301. a-year to the proprietor.

South from hence, and weft from Trefcaw, flands the ifland of Samfon, in which there is not above one family, who fublitt chiefly by the making of kelp. To the weltward of thefe there lie four iflands, which contain in the whole 360 acres of meadow and arable land. The eafern illes, fo denominated from their pofition in refpect to St Mary's, contain 123 acres; and there are alfo feven other rocky and fcattered illands, that have each a little land of fome ufe; and befides thefe, innumerable rocks on every fide, among which we muit reckon Scilly, now nothing more than a large, ill-haped, craggy, inacceffible inland, lying the fartheft northwelt of any of them, and confequently the nearelt to the continent.

The air of thefe iflands is equally mild and pure; their winters are feldom fubject to froft or inow. When the former happens, it lafts not long; and the latter never lies upon the ground. The heat of their fummers is much abated by fea-breezes. They are indeed frequently incommoded by fea fogs, but thefe are not unwholefome. Agues are rare, and fevers more fo. The moft fatal diftemper is the fmallpox ; yet thofe who live temperately furvive commonly to a great age, and are remarkably free from difeafes. The foil is very good, and produces grain of all forts (except wheat, of which they had anciently plenty) in large quantities. They fill grow a little wheat, but the bread made of it is unpleafant. They eat, for this reafon, chiefly what is made of bariey ; and of this they have fuch abundance, that though they ufe it both for bread and beer, they have more than fulfices for their own confumption. The introduction of potatoes was an effential improvement; the cultivation of this plant facceeded fo well, as to yield every feafon the moft luvuriant crops. Roots of all forts, pulfe, and falads, grow well; dwarf fruit-trees, goofeberries, currants, rafpberries, and every thing of that kind, under proper fhelter, thrive exceedingly; but they have no trees, though formerly they bad elder; and Porthelik, i. e. the harbour of uillows, proves they had thefe likewife; and with a little care, no doubt, great improvements anight be made. The ranunculus, anemone, and moft kinds of flowers, are fuccefsfully cultivated in their gardens. They have wild fowl of all forts, from the the fivan to the finipe ; and a particular kind called the hedpe chicken, which is not inferior to the ortolan: alfo tame fowl, puffins, and rabbits, in great numbers. Their blach cattle are generally fmall, but very well tafted, thongh they feed upon ore-weed. Their horfes are little, but ftrong and lively. They have alfo large ficks of fine ficep, whole fleeces are tolerably good and their flefl excellent. There are no venomous creatures in thefe iflands.

We muft now pals to the fea, which is of more confequence to thefe illes than that fmall portion of land which is diftributed amonglt them. S. Mary's harbour is very fafe and capacious, having that iffind on the fouth; the eaftern iflands, with that of St Mar$\mathrm{tin}_{1}$ on the eaft; Treicaw, Buchar, and Samfon, to the
north; St Agnes and feveral fmall iflands to the weft. Ships ride here in three to five fathom water, with good anchorage. Into this harbour there are four inlets, viz. Broad Sound, Smith's Sound, St Mary's Sound, and Crow Sound: fo that hardly any witid can blow with which a fhip of 150 tons cannot lafely fail through one or other of them, Crow Sound only excepted, where they cannot pals at low water, but at bigh there is from 16 to 24 feet in this paffage. Befides thefe there are two other harbours; one called New Grynfey, which lies between Brehar and Itefcaw, where fluips of 300 tons may ride fecurely. The other is called O/d Grynfey, and lies between Trefcaw, St Helen's, and Theon, for fmaller fhips. The former is guarded by the batteries at Oliver's Caftle ; the latter by the Blockhoufe, on the eaftern fide of Trefcaw; called Dover. Small coafters bound to the northward have more convenient outlets from thefe little harbours than from St Mary's, where, at the weft end of Hugh Town, there is a fine pier built by the earl of Godolphin, 430 feet long, 20 feet wide in the narroweft part, and 23 feet in height, with 16 feet of water at a fpring, and 10 at a neap tide; fo that under the fhelter of this pier, veffels of 150 tons may lie fecurely, not only clofe to the quay, but all along the ftrand of the town.

In this harbour, and in all the little coves of the feveral ifles, prodigious quantities of mackerel may be caught in their feaion; alfo foal, turbot, and plaife, remarkably good in their kind; and ling, which from its being a thicker film, mellower, and better fed, is very: juftly preferred to any caught nearer our own coafts. Salmon, cod, pollock, are in great plenty, and pilchards in valt abundance. To thefe we may ard the alga marina, fucus, or ore-weed, which ferves to feed both their fmall and great cattle, manures their lands, is burned into kelp, is of ufe in phyfic, is fometimes preferved, fometimes pickled, and is in many other refpects very beneficial to the inhabitants, of whom we are next to fpeak.

The people of Scilly in general are robut, handfome, active, hardy, induftrious, generous, and goodnatured; fpeak the Englih language with great propriety; have ftrong natural parts (though for want of a good fchool they have little education), as appears by their dexterity in the feveral employments to which they are bred. They cultivate moft of their lands as well as can be expected under their prefent circumflances. They are bred from their infancy to the management of their boats, in which they excel; are good fifhermen, and excellent pilots. Their women are admirable houfewives, fpin their own wool, weave it into coarfe cloth, and knit flockings. They bave no timber of their own growth, and not much from England; yet they have many joiners and cabinet-makers, who, out of the fine woods which they obtain from captains of fluips who put in here, make all kinds of domeftic furniture in a very neat manner. They are free from the land-tax, malt-tax, and excife; and beng furnifhed with plenty of liquors from the veffels which are driven into their roads for refrefliment, for neculiary repairs, or to wait for a fuir wind, in return for provifions and other convenienccs; this, with what little filh they can cure, blakes the belt part of their trade, if we except
their

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Scilly. their kelp, which has been a growing manufaीure for thele fourfcore years, and produces at prefent about 5001 per annum.

The right honourable the earl of Godolphin is Alyled proprietor of Scilly, in virtue of letters-patent granted to the late earl, then Lord Godolphin, dated the 25 th of July 1699 , for the term of 89 years, to be computed from the end and expiration of a term of 50 years, granted to Francis Godolphin, Efq. by King Charles I. that is, from the year 1709 to 1798 , when his leafe de. termines. In virtue of this royal grant, his lordhip is the fole owner of all lands, houles, and tenemsents; claims all the tithes, not only of the fruits of the earth, but of fith taken at fea and landed upon thofe premifer; harbour-duties paid by flips, and one moiety of the wrecks, the other belonging to the admiralty. There is only one ecclefiaftical perion upon the iflands, who refides at St Mary's, and viints the other inhabited illands once a-year. But divine fervice is performed, and fermons read, every Sunday in the churches of thofe ilands, by an honell layman appointed for that purpofe; and there are likewife church-wardens and overfeers, regularly chofen in evcry parih. As to the civil government, it is adminittered by what is called the Court of Twelve; in which the commander in chief, the proprietor's agent, and the chaplain, have their feats in virtue of their offices: the other nine are chofen by the people. Thefe decide, or rather compromife, all differences; and punifh fmall offences by fines, whippings, and the ducking ftool: as to greater enormities, we may conclude they have not been hitherto known ; fince, except for the foldiers, there is no prifon in the iflands. But in cafe of capital offences, the criminals may be tranfported to the county of Cornwall, and there brought to juftice.

The great importance of thefe iflands arifes from their advantageous fituation, as looking equally into St George's channel, which divides Great Britain from Ireland, and the Euglifh channel, which feparates Britain from France. For this reafon, moft fhips bound from the fouthward frive to make the Scilly iflands, in order to fleer their courfe with greater certainty. It is very convenient alfo for veffels to tahe fhelter amongt them; which prevents their being driven to Milford Haven, nay fometirres into fome port in Ireland, if the wind is flrong at eal; or, if it blow hard at northwefl, from being forced back into fome of the Cornilh harbours, or even on the French coatts. If the wind fhould not be very high, yet if unfavourable or unfleady, as between the channels often happens, it is better to put into Scilly, than to beat about at fea in bad weather. The intercourfe between thefe two channels is another motive why fhips come in here, as choofing rather to wait in fafety for a wind, than to run the hazard of being blown out of their courfe; and therefare a flrong gale at eaft f.ldom fails of bringing thity or forty veffels, and frequentlv a larger number, into Sciliy; not more to their own [uti faction than to that of the inhabitants. Ships homeward bound from Ainerica often touch there, from the defire of makin, the firlt land in their power, and for the fake of refrethment. Thefe reatons have an influence on fureigh flaips, as well as nat own ; and affert the naives an ofportunity of flo ing their wenderfal dwsterity in conduting them fufely into St M1ry's larbour, and, when the wind
ferves, through their founds. Upon firing a gan and Scilly: making a watt, a boat immediately puts off from the nearelt ifland, with feveral pilots on board ; and having with amazing activi'y dropped one of them into every fluip, till only two men are left in the boat, thele return again to land, as the wind and other circumilances direct, in one of their little coves.
liefpecting a current which often prevails to the weftward of Scilly, Mr Renncl has publifhed fome oblervations of much importance. "It is a circumilance (fays he) well known to feamen, that Ships, in coming from the Atlantic, and Iteering a courle for the Bitith channel, in a parallel fomewhat to the fouth of the Scilly iflands, do notwithatanding often find themfelves to the north of thole iflands; or, in other words, in the mouth of St George's or of the Briltol channel. This extraordinary error has paffed for the effects either of bad fteerage, bad obfervations of latitude, or the indrat ght of the Briltol channel : but none of thefe account for it fatisfactorily; becaufe, admitting that at times there may be an indraught, it cannot be fuppofed to extend to Scilly; and the cafe has happened in weather the moft favourable for navigating and for taking obfervas: tions. The confequences of this deviation from the intended tract have very often been fazal; particuls rly in the lofs of the Nancy packet in our own times, and that of Sir Clouden:y Shovel and others of his fleet at the beginning of the prefent century. Numbers of cafes, equally melancholy, but of lefs celebrity, have occurred; and many others, in which the danger has been imminent, but not fatal, have fcarcely reached the puiblic ear. All of thefe have been referred to accident ; and therefore no attempt feems to have been made to invefligate the caufe of them.
" I am, however, of opinion, that they may be imputed to a Specific caule; namely, a current ; and I tha:l therefore endeavour to inveftigate both that and its effeets, that feamen may be apprized of the times when they are particularly to expect it in any confiderable deyree of ftrength; for then only it is likely to occafion mifchief, the current that prevails at ordinary times being probably too weak to produce an error in the reckoning, equal to the difference of parallel between the fouth part of Scilly and the tract in which a commander, prudent in his meafures, but unfurpicious of a current, would choofe to fail."
The original caufe of this current is the prevalence of wefterly winds in the Atlantic, which impel the waters along the north coalt of Spain, and accumulate them in the bay of Bilcay; whence they are roj cred along the coaft of France, in a direction north-well tiy welt to the weft of Scilly and Ireland. The suajor affigns flrong reafons for the exillence of this current ' $\mathrm{e}-$ tween Ufhant and Ireland, in a chart of the tracks of the Hector and Atlas, Eant India fluips, in 1778 and 1787. The following remarks on the effeet of this current are abridged from the author's work, which is well worthy the perufal of all failors and fhipnnzlters.
iff, If a thip croffes it olliquely, that is in an eaft by fouth or more foutherly direction, the will continue much longer in it, and of courle be more afficted by it, than if the crofled ir more dircelly. The fame conlequence will hannon if fic or 'fes it "ith li, it wink. 2lly, A grod iffreation of latitude at noon whath he thoug't a fifficient warrant for running exl al 'u-

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Saitly, Scio.
ring a long light; yct, as it may be poffible to remain in the current long enough to be carried from a parallel, which may be deemed a very fafe one, to that of the rocks of Sciliy, it would appear prudent, after experiencing a continuance of ftrong wefterly winds in the Atlantic, and approaching the Channel with light foutherly winds, either to make Uhant in time of peace, or at all events to keep in the parallel of $4^{\circ}+5^{\prime}$ at the higheft. 3 dly, Ships, bound to the weftward, from the mouth of the Channcl, with the wind in the fouth-weft quarter, thould prefer the larboard tack. 4thly, Major Rennel approves the defign of removing the light-houfe of Scilly (if it be not already removed) to the fouth-weft part of the high rocks. 5 thly, He recommends the fending a veffel, with time-keepers on board, to examine the foundings between the parallels of Scilly and Uthant; from the meridian of the Lizard Point as far weft as the moderate depths extend. A fet of time-keepers, he obferves, will effet more in one fummer, in filful hands, than all the fcience of Dr Halley could do in the courfe of a long life.

In time of war, the importance of thele iflands is ftill more confpicuous; and it is highly probable, that they afforded the allies a place for affembling their fleet, when the Britons, Danes, Scots, and Jrifh, failed under the command of Anlaff, to attack King Athelftan; which convinced him of the neceflity of adding them to his dominions. Upon the like principle, Henry VIII. when upon bad terms with his neighbours, caufed an old fortrefs to be repaired, and Queen Elizabeth, who had more to fcar, directed the confruction of a cafte, which, in part at leaft, fill remains. But the moff fingular inftance of the detriment that might arife from thefe iflands falling into other hands than our own happened in 1651 , when Sir John Grenville took fhelter in them with the remains of the Cornifh cavaliers. For the depredations committed by his frigates foon made it evident that Scilly was the key of the Englifh commerce; and the clamours of the merchants thereupon rofe fo high, that the parliament were forced to fend a fleet of fifly fail, with a great body of land forces on board, under Sir George Ayfcue and Admiral Blake, who with great difficulty, and no inconfiderable lofs, made themfelves matters of Trefcaw and Brehar; where they erected thofe lines and fortifications near the remains of the old fortrefs that are called Oliver's Cafle. But at length, finding that little was to be done in that way, they chofe to grant Sir John Grenville a moft honourable capitulation, as the furett means to recover places of fuch confequence; with which the parliament were very little fatisfied, till Mr Blake gave them his reafon; which appeared to be fo well founded, that they directed the articles lie bad concluded to be punctually carried into execution.

SCIO , or Chio, a celebrated ifland of the Archipelago (fee CHIO). It is 32 miles long and I 5 broad, and is a mountainous but very pleafant country. The principal mountain, called anciently Pelinceus, prefents to view a long lofty range of bare rock, refleeting the fun; but the receffes at its fect are diligently cultivated, and reward the hufbandman by their rich produce. The flopes are clothed with rines. The groves of lemon, orange, and citron trees, regularly planted, at once perfume the air with the odour of their blofoms, and
delight the eye with their golden fruit. Miyrties and jafmine are interfperied, with olive and palm trees, and Scioppius, cyprefles. Amid thefe the tall minarets rife, and whte houles glitter, dazzling the beholder. The inhabitants export a large quantity of pleafant wine to the neighbouring iflands, but their principal trade is in filks, They have alfo a fmall commerce in wool, cheefe, figs, and maftich. The women are better bred than in other parts of the Levant; and though the drefs is odd, yet it is very neat. The partridges are tame, being fent every day into the fields to get their living, and in the evening are called back with a whittle. The town called Scio is large, pleafant, and the beft built of any in the Levant, the houfes being beautiful and commodious, fome of which are terraffed, and others covered with tiles. The ftreets are paved with flint-ftones; and the Venetians, while they had it in their poffeffion, made a great many alterations for the better. The cafte is an old citadel built by the Genoefe, in which the Turks have a garrifon of 1400 men . The harbour of Scio is the rendezvous of all fhipping that goes to or comes from Conflantinople, and will hold a fleet of fourfcore veffels. They reckon there are 10,000 Turks, 100,000 Greeks, and 10,000 Latins, on this illand. The Turks took it from the Venetians in $1695^{\text {. Scio is a bihop's }}$ fee, and is feated on the fea-fide, 47 miles weff of Smyrna, and 210 fouth-weft of Conflantinople.

There are but few remains of antiquity in this place. "The moft curious of them (fays Dr Chandler) is that which has been named without reafon the School of Homer. It is on the coaft at fome diftance from the city northward, and appears to have been an open temple of Cybele, formed on the top of a rock. The thape is oval, and in the centre is the image of the goddefs, the head and an arm wanting. She is reprefented, as ufual, fitting. The chair has a lion carved on each fide, and on the back. The area is bounded by a low rim or fcat, and about five yards over. The whole is hewn out of the mountain, is rude, indiftinct, and probably of the moif remote antiquity. From the flope higher up is a fine view of the rich vale of Scio, and of the channel, with its dhining iflands, beyond which are the mountains on the mainland of Afia."

SCIOPPIUS, Gaspar, a learned German writer of the 17 th century, was born at Neumark in the Upper Palatinate on the 27 th of May $\mathbf{1} 576$. He ftudied at the univerfity with fo much fuccefs, that at the age of 16 he became an author; and publifhed books, fays Ferrari, which deferve to be admired by old men. His difpofitions did not correfpond with his genius. Naturally paffionate and malevolent, he aflaulted without mercy the characters of eminent men. He abjured the fyifem of the Proteftants, and became a Roman catholic about the year 1599; but his character remained the fame. He poffefled all thofe qualities which fitted him for making a diftinguifhed figure in the literary world ; imagination, memory, profound learning, and invincible impudence. He was familar with the terms of reproach in moft of the languages. He was entirely ignorant of the manners of the world. He neither fhowed refpect to his fuperiors, nor did he behave with decency to his equals. He was poffeffed wih a frenzy of an uncommon kind: he was indeed a perfect fircbrand, fcattering around him, as if for his amufement, the moft atrocious calumnies. Jofeph Scaliger, above

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Scioppius, all others, was the object of his fatire. That learned $\underbrace{\text { ser }}$ man, having drawn up the hiftory of his own family, and deduced its gerealogy from princes, was fevercly attacked by Scioppius, who ridiculed his high pretenfions. Scaliger in bis turn wrote a book entitled The Life and Parentage of Galpar Scioppius, in which he informs us, that the father of Scioppius had been fucceffively a grave-disger, a journeyman fationer, a hawker, a foldier, a miiler, and a brewer of beer. We are told that his wife was long kept as a miltrefs, and at length forfaken by a debauched man whom fie followed to Hungary, and obliged to return to her hufband; that then lie treated her harihly, and condemned her to the loweft offices of fervitude. His daughter, too, it is faid, was as diforderly as her mother: that after the flight of her hufband, who was going to be burned for fore infamous crimes, the became a common proflitute; and at length grew fo fcandalous, that the was committed to prifon. Thefe fevere accufations againf the family of Scioppius inflamed him with more eagernefs to attack his antagonift anew. He collected all the calumnies that bad been thrown out againft Scaliger, and formed them into a huge volume, as if he had intended to crufh him at once. He treated with great contempt the king of England, James I. in his Ecclefiaficus, \&ic. and in his Collyrium Regium Britannic Regi graviter es eculis laboranti munere miflum ; that is, "An Eye falve for his Britannic Majefly." In one of his works he bad the andacity to abufe Henry IV. of France in a moit fcurrilous manner, on which account his book was burned at Paris. He was hung in effigy in a farce which was reprefented before the king of England, but he gloried in his dihonour. Provoked with his infolence to their forereign, the fervants of the Englifh ambaffador aliaulted him at Madrid, and corrected himi feverely : but he boalted of the wounds he had received. He publifhed more than thirty defamatory libels againft the Jefuits; and, what is very furprifing, in the very place where he declaims with moft virulence againft that fociety, be fubfribes his own name with expreflions of piety. I Ga/par Scioppius, already on the brink of the ${ }_{\text {Grave, }}$ and ready to appear before the tribunal of Jefus Clirif to give an account of my warks. Towards the end of his life he employed himfelf in fuudying the Apocalyfe, and affirmed that he had found the key to that myfterious book. He fent fome of his expofitions to Cardinal Mazarine, but the cardinal did not find it convenient to read them.

Ferrari tells us, that during the laft fourteen years of his life he fhut himfelf up in a fmall apartment, where he devoted himfelf folely to ftudy. The fame writer acquaints us, that he could repeat the Scriptures almolt entirely by heart ; but his good qualities were eclipfed by his vices. For his love of flander, and the furious affaults which he made upon the mof eminent men, he was called the Cerberus of litcrature. He accufes even Cicero of barbarifms and improprieties. He died on the 19th November 1649, at the age of 74 , at Padua, the only retreat which remained to him from the multitude of enemies whom he had created. Four hundred books are afcribed to him, which are faid to difcover great genius and learning. The chief of thefe are, 1. Verefimilium Libri iv. 1596 , in 8 vo . 2. Commentarius de arte critica, $\mathbf{6 6 1}$, in 8vo. 3. De fua ad Catholicos migratione, 1660 , in 8 vo . 4. Notationes Critica in

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Phadrunn, in Priapcia, Patavii, 1664, in 8 vo. S. Suf. Suivppius pectarum lectionum Libri v. 1664, in 8vo. 6. Claficum taclit Jacri, 1619, in 4to. 7. Collhrium regium, 1611 , in 8vo. 8. Grammatica Pliti-f phica, 1644 , in 8 vo . 9. Relatio ad Reges et Principa de Siratgematilus Sucietatir Jefu, 1641, in 12 mo . This laft inentioned was publifhed under the name of Alphonfo de Vargas. He was at firlt well difpofed to the Jefuits; but thefe fathers on one occafion oppofed him. He prefented a petition to the diet of Ratillon in 1630 , in order to obtain a penfion ; but the Jefuits, who were the confeflors both of the emperor and the electors, had influence to prevent the petition from being granted. From that moment Scioppius turned his whole artillery againft the Jefuits.

SCIOPTIC, or Scioptric ball, a fphere or globe of wood, with a circular perforation, where a lens is placed. It is fo fitted, that, like the eye of an animal, it may be turned round every way, to be ufed in mahing experiments of the darkened room.

SCIPIO, Publius Corvelits, a renowned Roman general, furnamed /ifricanus, for his conquels in that country. His other fignal military exploits were, his taking the city of Nuw Carthage in a fingle day; his complete victory over Hannibal, the famous Carthaginian general ; the defeat of Syphax king of Numidia, and of Antiochus in Afia. He was as eminent for lis chaftity, and his generous behaviour to his prifoners, as for his valour, He died 180 B. C. aged about 5 s .

Scipio, Lucius Cornelius, his brother, furnamed Afa ticur, for his complete victory over Antiochus at the battle of Magnefia, in which Antiochus loit 30,000 infantry and 4000 cavalry. A triumph, and the furname of 1 /iaticus, were the rewards of his valour. Y'et hiv ungrateful countrymen accufed him, as well as his brother, of peculation; for which he was fined: but the public fale of his effects proved the falfehood of the charge; for they did not produce the amount of the fine. He flourilhed about 192 B.C.

Scirio, Publius Emilianus, was the fon of Paulus Emilius; but being adopted by Scipio $\Lambda$ fricanus, he was called Scipio Africanus junior. He flowed himieli worthy of adoption, following the foutteps of Scipio Africanus, whom he equalled in military fame and public virtues. His chief vidories were the conguen of Carthage and Numantia ; yet thefe fignal fersices to his country could not protect him from an untimely fate. He was ftrangled in his bed by order of the Decemsiri, who dreaded his popularily, 129 B. C. aged 56.

SCIRO, an illand of the Archipelago, to the weft of Mytilene, to the north eaff of Negropont, and to the fouth eaft of Sciati. It is 15 miles in length, and eight in breadth. It is a mountainous country, but has no mines. The vines make the beauty of the ifland, and wine is excellent; nor do the natives want wood. There is but one village ; and that is built on a rock, which runs up like a fugar-loaf, and is 10 miles from the larbour of St Gcorge. The inhabitants are all Greeks, the cadi being the only Turk among them.

SCIROCHO, or Sirocco, a name generally given in Italy to every unfavourable wind. In the fouth welt it is applied to the hot fuffocating blafls from $\Lambda$ frica, and in the north-eaft it means the cold bleak winds from the Alps.
sCIRPUS,

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Sirpus

SCIRPUS, a genui of plants beionging to the triandita clafs; and in the natural method ranking under the third order, Calamarice. See Botany Index.

SClRRHUS, in Surgery and Medicine, a hard tumor of any part of the bod, voil of pain, arifing, as is fuppofed, from the infifiation and induration of the fluids contained in a gland, though it may alfo appear in any other part of the body, efpecially in the fat; being one of the ways in which an inllammation terminates. Thefe tumors are exceedingly apt to degenerate into cancers.
SCITAMINE $\not \subset$, one of the natural orders of plants. See Botany Index.

SCIURUS, the Squirrel; a genus of quadrupeds belonging to the order of glires. See Mamalia Index.

Scturus, a genus of plants belonging to the diandria clafs; and in the natural method ranking with thole that are doubtful. See Botany Index.

SCLAVONIA, a country of Europe, between the xivers Save, the Drave, and the Danube. It is divided into fix counties, viz. Pofegra, Zabrab, Creis, Warafden, Zreim, and Walpon, and belongs to the houfe of Auttria. It was formerly called a kingdom ; and is very narrow, not being above 75 miles in breadth; but it is 300 in length, from the frontiers of Auftria to Belgrade. The eaftern part is called Raizia, and the inbabitants Ratzians. Thefe from a particular notion, are of the Greek church. The language of Sclavonia is the mother of four others, namely, thofe of Hungary, Bohemia, Poland, and Ruffia.
SCLERANTHUS, a genus of plants belonging to the dodecandria clafs; and in the natural method ranking under the 22 dorder, C Caryophylle.e. See Botany Index.
SCLERIA, a genus of plants belonging to the monoccia clafs; and in the natural method ranking under the $4^{\text {th }}$ order, Gramina. See Botany Index.

SCLEROTICS, medicines which are fuppofed to have the property of hardening and confolidating the flefh of the parts to which they are applied ; as purflain, houfe-leek, flea-wort, garden nighthade, \&c.

SCOLOPAX, a genus of birds belonging to the order of eralle. See Ornithology Index.

SCOLOPENDRA, a genus of infects belonging to the order of aptera. See Entomology Index.

SCOL YMIUS, a genus of plants belonging to the fyngenefia clafs; and in the natural method ranking under the 49 th order, Compofita. See Botany Index.

SCOMBER, the Mackerel, a genus of filhes belonging to the order of thoracici. See Ichthyology Index.

SCONCES, fmall forts, built for the defence of fome pars, river, or other place. Some fconces are made regular, of four, five, or fix baftions; others are of fmaller dimenions, fit for pafles or rivers ; and others for the field.
SCONE, a village of Scotland, now chiefly remarkable for being the place where the kings were anciently crowned. WW. Long. 3. 10. N. Lat. 56. 28. Here was once an abbey of great antiquity, which was burnt by the 1 cformers at Dundee. Kenueth II. upon his conqueft of the licts in the ninth century, having made Scone his princ pal refidence, delivered his laws, called the Macalpine laws, from a tumulur, named the Mote

Hiil of Scone. The old palace was beçun by the earl sconeme of Gowri= ; but was completed by Sir David Murray of Gofpatric, the favourite of King James VI. to whom that monarch had gramed it ; and the new poffifior in gratitude to his benefactor put up the king's arms in feveral parts of the houfe. It was built around tiro courts. The dining room was large and handfome; and had an ancient and magnificent chimney-piece, and the king's arms, with this motto:

## Noóis luec invifia miferunt centam fex proavi.

Beneath were the Murray arms. In the drawing room was fome good old tapeltry, with an excellent figure of Mercury. In a fmall bed-chamber was a medley fcrip-ture-piece in needle-work, with a border of animals, faid to be the work of Queen Mary during her confinement in Loch Leven cafle. The gallery was about ${ }^{5} 55$ feet long, the top arched, divided into compartments filled with paintings in water-colours. The pieces reprefented were various kinds of huntings; that of Nimrod, and King James and his train, appear in every piece. But the whole of this building we believe has been demolifhed, and a moft magnificent pile erected in its place by the earl of Mansfield, who is hereditary keeper. Tiil the deftruction of the abbey, the kings of Scotland were crowned here, fitting in the famous wooden chair which Edward I. tranfported to Weftminfter abbey, to the great mortification of the Scots, who looked upon it as a kind of palladium. Charles II, before the battle of Worcefter, was crowned in the chapel at Scone. The old pretender refded for fore time at Scone in 1715 ; and his fon paid it a vifit in 1745 .

SCOPARIA, a genus of plants belonging to the tetrandria clafs; and in the natural method ranking under the 40 th order, Perfonala. See Botany Index.

SCOPER or Scupper Holes, in a thip, are holes made through the fides, clofe to the deck, to carry off the water that comes from the pumps.

SCOPOLIA, a genus of plants belonging to the gynandria clafs ; and in the natural method ranking under the 11th clafs, Sarmentacece. See Botany Index.

SCORBUTUS, the Scurvy. See Medicine, $\mathrm{N}^{\circ} 8$.

SCORDIUM, or Water-germander. See Teucrium, Botany Index.

SCORIA, or Dross, among metallurgifts, is the recrement of metals in fufion; or, more determinately fpeaking, is that mafs which is produced by melting metals and ores: when cold, it is brittle, and not diffoluble in water, being properly a kind of glafs.

SCORIFICATION, in Metallurgy, is the art of reducing a body, either entirely or in part, into fcoria.

SCORP FNA, a gcnus of fithes belonging to the order thoracici. See Iсhthyolocy Index.

SCORPIO, a genus of infects belonging to the order of aptera. See Entomology Inććx.

Scorpio, Scorpion, in Afironon:y, the cighth fign of the zodiac denoted by the character $m$. See AstroNowy.

Scorpion Fly. See Panorpa, Entonolocy In$d \in x$.

SCORPIURUS, Caterpillars, a genus of plants belonging to the diadelphiaclafs; and in the natural method ranking under the 32 d order, Papilionacia. See Botany Index.

SCORZONERA,

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Eeorzoaers SCORZONERA, Viper-grase, a genus of plants belonging to the fyngenefia clafs; and in the natural method ranking under the 49th order, Compofitc. See Botany Index:

SCOT, a cuftomary contribution laid upon all fubjects, according to their abilities. Whoever were affeffed in any fum, though not in equal proportions, were faid to pay foot and lot.

Scot, Michael, of Balwirie, a learned Scottifh author of the $13^{\text {th }}$ century. This fingular man made the tour of France and Germany; and was received with fome diftinction at the court of the emperor Frederic II. Having travelled enough to gratify his curiofity or his vanity, he returned to Scotland, and gave himfelf up to fludy and contemplation. He was fkilled in languages; and, confidering the age in which he lived, was no mean proficient in philofophy, mathematics, and medicine. He tranflated into Latin, from the Arabic, the hiftory of animals by the celebrated phyfician Avicenna. He publifted the whole works of Ariftotle, with notes, and affected much to reafon on the principles of that great philofopher. He wrote a book concerning The Secrets of Nature, in which he treats of generation, phyfiognomy, and the figns by which we judge of the tempera. ments of men and women. We have alfo a tract of his On the Vature of the Sun and Moon. He there fpeaks of the grand operation, as it is termed by alchymifts, and is exceedingly folicitous about the projected powder, or the philofopher's fone. He likewife publiched what he calls Menfa Philofophica, a treatife replete with aftrology and chiromancy. He was much admired in his day, and was even fufpected of magic ; and had Roger Bacon and Cornelius Agrippa for his panegyrilts.

Scot, Reginald, a judicious writer in the 16th century, was the younger fon of Sir John Scot of Scot'shall, near Smeethe in Kent. He ftudied at Hart-hall in the univerfity of Oxford; after which he retired to Smeethe, where he lived a ftudious life, and died in 1599. He publifhed, The perfect Platform of a HopGarden; and a book intitled, The Difcovery of Witchcraft; in which be fhowed that all the relations concerning magicians and witches are chimerical. This work was not only cenfured by King James I. in bis Damonology, but by feveral eminent divines; and all the copies of it that could be found were burnt.

SCOTAL, or Scotale, is where any officer of a foreft keeps an ale-houfe within the forelt, by colour of lis office, making people come to his houfe, and there fpend their money for fear of his difpleafure. We find it mentioned in the charter of the foreft, cap. 8. "Nullus forreftarius faciat Scotallas, vel garbas colligat, vel aliquam collectam faciat," \&c. Manwood, 216 .-The word is compounded of fcot and ale, and by tranfpofition of the words is otherwife called ale/bot.

SCOTALES, were meetings formerly held in England for the purpole of drinking ale, of which the expence was paid by joint contribution. Thus the tenants of South Malling in Suffex, which belonged to the archbifhop of Canterbury, were, at the keeping of a court, to entertain the lord or his bailiff with a drinking, or an ale; and the fated quotas towards the charge sere, that a man fhould pay threepence halfpenny for himfelf and his wife, and a widow and cottager a penny halfpenny. In the manor of Ferring, in the fame county, and under the fame juriddiction, it was the cuftom for

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the tenan's named to make a fcotale of fixteerpence halfpenny, and to allow out of each fixpence a peany halfpenny for the bailiff.

Common fcotales in taverns, at which the clergy were not to be prefent, are nuticed in feveral ecclefiaitical canons. They were not to be publithed in the church by the clergy or the laity; and a meating of more than ten perfons of the fame parifh or viciaage was a fcotale that swas generally prohibited. There were alfo common drinkings, which were denominated liet-alc, bride-ale, clerk ale, church-ale. To a leet-ale probably all the refidents in a manorial diftrict were contributors; and the expence of a bride-ale was defrayed by the relations and friends of a happy pair, who were not in circumftances to bear the charges of a weding dinner. This cuftom prevails occafionally in fume diftricts of Scotland even at this day, under the denomination of a penny bride-ale, and was very common about half a century ago. The clerk's-ale was in the Eafter holidays, and was the method taken to enable clerks of parifhes to collect their dues more readily.

Mr Warton, in his hiftory of Englifh Poetry, has inferted the following extract from an old indenture, which clearly thews the defign of a church-ale. "The pariflioners of Elvefton and Okebrook, in Derby-fhire, agree jointly to brew four ales, and every ale of one quarter of malt, betwixt this and the feaft of St John the Baptift next coming; and that every inhabitant of the faid town of Okebrook fhall be at the feveral ales. Every hufband and his wife thall pay twopence, every cottager one penny; and all the inhabitants of Elvelton fhall have and receive all the profits and advantages coming of the faid ales, to the ufe and behoof of the faid churcto of Elvefon."

The give-ales were the legacies of individuals, and from that circumftance entirely gratuitous. 'They feem to have been very numerous, and were generally left to the poor; though, from the largenefs of the quantity of ale enjoined to be brewed, it muit have been fometimes intended that others were to partake of them. Thefe bequefts were likewife made to the altar of a faint, with directions for finging maffes at the obit, or anniverfary of the teftator. The give-ales were fometimes difpenfed in the church, and frequently in the church-yard, by which means Godde's houfe was made a tavern of gluttons. Such certainly would be Chalk-church, if in it was kept the give-ale of William May of that parifh; for he ordered his wife " to make in bread fix buthels of wheat, and in drink 10 buffels of mault, and in cheefe 20d. to give to poor people, for the health of his foull ; and he ordered that, after the deceale of his wife. his executors and feoffees, thould continue the cuftom for evermore."

SCOTER. See Anis, Ornithology Index.
Nova SCOTIA, or New Scotland, one of the Britifh lettlements in North America, fituated between $43^{\circ}$ and $49^{\circ}$ north latitude, and between $60^{\circ}$ and $67^{\circ}$ weft longitude, is buunded by the river St Laurence on the north; by the gulf of St Laurence and the Atlantic ocean on the eaft; by the lame ocean on the fuuth; and by Canada and New England on the weft.-In the year $17^{8} 4$, this province was divided into two governments. The province and governanent nuw ftyled Xi $u$ Brunfwick, is bounded on the weltward of the mouth of the river St Croix, by the faid river to its fource, and

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Nowa Seo. by a line drawn due north from theace to fouthern tia. boundary of the province of Quebec; to the northward by the faid boundary as far as the weitern extremity of the bay de Chaleurs; to the eathard by the faid bay 10 the gulf of St Lurence to the bay carled Bay Virie, to the fouth by a line in the ceatre of the vay of I undy, from the river St Croix afuretaid, to the mouth of the AIufquat river, by the faid river to its furce, aid from thence by a due eaft line acrols the iithravs into the Bay Veite, to join the eaflern lut above defcrived, including all inlands within fix leagues of the coalt.

The chief rivers are, the river of St Laurence, which forms the northern boundary. The rivers lisfouche and Nipiliguit run from welt to ealt, and fall into the bay of St Laurence. The rivers of St Joln, Paflamagandi, Penobfoot, and if Croix, which run from norlh to fouth, fill into Fundy bay, or the fea a little to the eaftward of it.

The feas adjorning to it are, the Atlantic ocean, Fundy bay, and the guli of St Laurence. The lefler bays are, Chenigto and Green Bay upon the ifthaus which joins the north part of Nova Scotia to the fouth; and the bay of Chaleurs on the north ealt; the bay of Chedibucto on the fouth ealt; the Bay of the Illands, the ports of Bart, Chebucto, Profper, St Margaiet, La Heve, Port Maltois, Port Ryfignal, Purt V'ert, and Port Joly, on the fouth ; Port La Tour on the foutheaft; Port St Mary, Amnapolis, and Mlinas on the forth fide of Fundy bay, and Poit Rofeway, now the moft populous of all - The chief capes are, Cape Portage, Ecoumenac, Tourmentin, Cape Port, and Epis, on the eaft ; Cape Fogerie and Cape Cancear on the foutheatt; Cape Blanco, Cape Vert, Cape Theolore, Caje Dore, Cape Li Heve, and Cape Negro, on the fouth; Cape Sable and Cape Fourche on the fouth-wef.- The lakes are very numerous, but have not yet received parLicular names.
'ine face of the country, when viewed at a diftance, prefents a pleafingly variegated appearance of bills and valleys, with fcarcely any thing like mountains to interrupt the profpect, efpecially near the fea. A nearer approach difcovers thofe fublime and beautiful fcenes which are fo far fuperior to the gaudy embellifhments of art. Immenfe furefts, formed of the talleit trees, the growth of ages, and reaching almoft to the clouds, everywhere cover and adorn the land: their leaves falling in autumn, add continually to that cruft of mols, vegetables, and decaying wood, that has for many centuries been accumulating; whilft the rays of the fun, unable to pierce the thick thade which cverywhere covers the ground, leaves it in a perpetual fate of damp and rottennefs; a circumftance which contributes, in no fimall degree, to increafe the fharpnefs of the air in winter.

The clouds, flying over the higher grounds, which are covered in every direction with one vaft foreft, and arreited by the attraction of the woods, fill the country with water. Every rock has a fpring, and every fpring caufes a fwamp or morafs, of greater or lefs extent in proportion to its caufe : hence it is, that travelling becomes almoft inpracticable in fummer, and is feldom attempted, but in the fall of the year, when winter begins to fet in, and the ground is already frozen.

The land throughout the reninfula is in no part mountainous, but fiequently rifes into hills of gradual afcent, everywhere clothed with wood. From thefe
ariie innumerable fprings and rivulets, which not only Nova Scofer.alize and adorn the country, but have formed, in the midit of it, a large lake or piece of frefl water, which is of vainus dep hs, and of which, however, listle more is known, then that it has tpou its borders very large trachs of me dow-land highly improveable. 'I hat part of the province which is weyord the bay of Fundy, and cxteads to the river bt Liutence, rifes allo gradually as we advance from the fea quite to Canada; but is, however, hardly anyuhcre mountaineus. Its lends are for the mott part very rich, particularly at a diftance from the lea; and its wods abound with the hardelt and letieift tices.

Though this country, like Cnnada, is fubject to long and fevere winte:, lucceeded by fudden and violent keats, of en much greater than what are felt in the fare latitudes in Euroje, yet it camot be accourted an unlicalthy climate. I he air in genewal in winter is very 17.arp, fiot'y, and cry ; the ffy ferere and uncloncect, by which cirry kind of exercite adapted to the fealon is rendered plualant and agreealile. 'I he fogs are frequent near the fea, but ieldorn !pread then:lelyes to any diftance in land.

The winier commonly breaks up with heavy rairs, and the inbabitants experience hardly ary of the delights of the fipring, which in England is accounted the moft agreeable featon of the ye r. Irom a litelels and dreary appearance, and the gieomy focnes of witier wrapped around the vegetable world, the cuintry thror: s crì its feri idding attire, and in a fers days exhibits a grand and pleatant proipect ; the vegetation being inconceivably rapid, name pafits fudaenly from one extremie to ancther, in a manner utierly unhown to csunties accutioned to a graudal pro remition of feaions. And, flrange as 1 appears, it is an achoonledged fact, a fact which futzithes a certain groof of the purity of the air, that there fudden changes faldom, if eser, affect the healih of fromeers or Eurcpeans.

In this couniry agriculture has yet made but fmall progrels. Nova Scotia is almoti a continued forett, producing every hind of scod which grows in the neighbouring flovinces of New England. Four fifihs of all the lands in the province are covered with pines, which are vaicable not only for furnilling mafts, fpars, lumber for the fugar plantations, and tiniter for building, but for yielding tar, putci, and turpentine, commodities which are all proctured from this ufeful tree, and with which the mother-country may in a few years eaflly be fupplied.

The various fpecies of birch, beech, and maple, and feveral forts of fpruce, are found in all parts in great abundance; as alfo numerous herbs and plants, either not ecmmen to, or not knows in, England. A. mongf thefe none is more plentiful than farfaparilla, and a plant whofe roct reembles rhubarb in colour, tatle, and effects; likewife the Indian or mountain tea, and maiden-hair, an herb much in repuie for the fame purpofe, with iturubs producing ftrau berries, rafpberries, and many other pleafant fruite, with which the wouds in fummer are well ftored: Of thefe wild productions the chorries are beft, though fmaller than ours, and grouing in bunches fomewhat refembling grapes. The daffafras tree grows plentifully in common with others; but amongt thom none is more ufeful to the inhabitants than a fpecies of marle, dittinguified by the name of

Nov: Sio the li.gar tre, as affording a confiderable quantity of tia. that valuable ingtedient. See Sugar.

Amonglt the natural productions of Nova Scotia, it is neceflary to enamerate their iron-ore, which is fuppofid equally good with that found in any nart of America.

Limente is likewfe found in many places; it is extremely good, and is now much uled for building: independent of which, it gives the farmers and landholders a great advantage for improving the ground, as it is found by experience to be one of the mof approved things in the world for that purpofe.

Sereral of the ufeful and moft common European fruits have been planted in many places; fo that the province now produces great quantilics of apples, fome pears, and a few plums, which are all good of their kind, efpecially the former. The fmaller fruits, fuch as currants, goofeberries, \&c. grow to as great perfection as in Europe; and the fame may be faid of all the common and uierul kinds of garden plants. Among thefe their potatoes have the preference, as being the molt terviceable in a country abounding with fill; and indeed they are not to be exceedec in goodnets by any in the world. The maize, or Indian com, is a rative of much warmer climates; and, though planted here, never arives at more than two-thirds of its natural bigmefs; a defect which arifes as well from the thortnefs of the fummer as the gravelly nature of the foil. Tobacco may likewile be culivated with eare in Nova Scotia, as it is already everywhere in Conada, from Lake Champlain to the ifle of Orleans, for the purpofe of internal confumption.

This country is not deficient in the animal productions of the neighbouring provinces, particularly deer, beavers, and otters. Wild fowl, and all mamer of game, and many kinds of European forls and quadrupeds, have from time to time been brought into it and thrive well. At the clofe of Narch the fihh begin to fpawn, when they enter the rivers in fueh flicals as are incredible. Herrings come up in April, and the fturgeon and fa!mon in May. But the moft valuable appendage of New Scotland is the Cape Sable coall, along which is one continued range of cod filhing banks and excellent harbours. This fflery employs a great number of men, in fome fe? fons not leff than $10, \approx 20$, when 120,000 cquintals are cauglt, of which 40,020 may be exported. Thefe, it the lowelt price, matt bring into the colony 26.0201 . ferling, either in cafh or in commodities neceffary to the inhabitants. But this eftimation, it muit be obferved, refers to a diftant period, as that trade lias now greatly increaled.

Notwithftanding the comparatively uninviting appearance of this country, it was here that fome of the firit European fettlements were made. The firl grant of lands in it was given by James I. to his fecretary Sir Wiliam Alexander, from whom it had the name of Noza Scotia or New Scotland. Since that period it has frequently clanged proprietors, fometimes in the roffefrion of the French, and fometimes in that of the Enylilh.

In 1604 , the French firk Pettled in Nova Scotia, to which they gave the name of Acad'a. Intead of fixing towards the eaft of the perinfula, where they would liave had larger feas, an eafy navigation, and plenty of eod, they chofe a fmall bay, after:'ards called Irench

Bay, which had none of thefe advantages. It has been 'tuva siofrid, that they were invited by the beauty of Port Royal, I:A. where a thouland thips may ride in lafety from elely wind, where there is an excellent bottum, and at ...l times fuur or five fathoms of water, and eighteen at the entrance. It is more probable that the founders of this colony were led to choole this fiuation, from ins vicinity to the countries abounding in furs, of which the esclufive trade had been graited to them. ' 1 his canjec= ture is confirmed by the following circumftance: that both the firt monopolizers, and thole who fucceeded then, took the utmolt pains to divert the attention of their countrymen, whom an unlettled dilforition, or necellity, brought into thefe regions, from the clearing of the woods, the breeding of cattle, filling, and every kind of culture : choofing rather to engage the indullry of thefe adventurers in funting or in trading with the lavages.

This colony was yet in its infancy when the fettlement, which has fince become fo tamuas under the name of New England, was firft eftablithed in its neigh ourhood. The rapid fuccel's of the plantations in this new colony did not much attract the notice of the French. This kind of profperity did not excite any jealouly between the two nations. But when they began to fufpect that there was likely to be a competition for the beaver trade and furs, they endeavoured to fecure to themfelves the fole property of it, and were unfortunate enough to fucceed.

At their firft arrival in Acadia, they had found the poninfula, as well as the foreits of the neighbouring continent, peopled with finall favage nations, who went under the general name of Abenalies. Though equally fond of war as other favage nations, they were more fociable in their manners. The miffionaries eafily infinuating themfelves among them, had fo far inculcated their tenets as to make enthufialts of them. At the fame time that they taught them their relicion, they infired them with that hatred which they themfelves entertained for the Englih name. This fundan:-nial article of their new worthin, being that which made the ftrongeft impreffion on their fenfes, and the o.aly one that favoured their palion for war, they adopicd it with all the rage that was natural to them. They not only refufed to make any kind of exchange with the Engliih, but allio frequenily ditturbed and ravaged the frontiers of that nation.

This produced perpetual ho:tilities between the New Englanders and the French fettle:s in Acadia, till that province was, at the peace of Uirecht, for ever ceded to the Englith, who feemed not for a long time to dilcover the value of their new ecquifition. They rellared to it its ancient name of Noza Siofia; and having built a flight fortification at Port-Royal, which they called Annapolis in honour of Queen Anne, they contented themlelves with putting a very fmall garrifon into it. In procefs of time, however, the impurtance of Niva Scetia to the commerce of Great B.itain began to be percoived ; and at the peace of 1749 , the miniflry offered particular ailvantages to all perfons who chufe to go over and fettle in Acrdia. Every foldier, fillor, and workenan, was to have 50 neres of land for himfelf, and ten for every perfon he cazried over in b"s family. All non commiffioned offiecrs were allowed so for thenifulses, and 15 for their wives and children; 4) 2 enfigns

## is C O [ 580 ] S C O

Nova Sco-eningns 200 ; lieutenants 300 ; captains 400 ; and all
${ }^{\text {tia }}$ Scotifs. $\underbrace{}_{\text {About } 15}$ Sterling.
officers of a higher rank 600 ; together with 30 for each of their dependents. The land was to be tax free for the firft ten years, and never to pay above one livre two fols fix deniers* for fifty acres. Befide this, the government engaged to advance or reimburfe the expences of paffage, to build houfes, to furnifh all the neceffary inftruments for fifhery or agriculture, and to defray the expences of fubfiftence for the firft year. Thefe encouragements determined $374^{\circ}$ perfons, in the month of May ${ }^{2} 749$, to go to America, in hopes of bettering their fortune.

Thus encouraged, the province of Nova Scotia began to flourifh, though in 1769 it fent out only 14 veffels and 148 boats, which together amounted to 7324 tons, and received 22 veffels and 120 boats, which toyether made up 7006 tons. They conftructed three floops, which did not exceed iro tons burden. Their exportation for Great Britain and for the other parts of the globe did not amount to more than 729,850 livres 12 fols 9 deniers $t$. Continuing, however, true to its allegiance when the other colonies threw off the dominion of Great Britain, it has now become a place of great confequence both to the mother-country and the Weft Indies. Its mipping and feamen have rapidly increafed, as well as its produce, which affords the pleafing profpect of being able to fupply itfelf with all the neceffaries of life. It now fupplies Britain with timber and fifh to the amount of 50,0001 . yearly ; and receives from hence linen and woollen cloths to the value of about 30,0001 . The number of perfons who have abandoned their habitations in the more fouthern provinces, and fettled either there or in Canada, cannot be eftimated, by the moft moderate calculation, at lefs than 80.002 ; and it is without doubt the molt convenient in point of fituation of any province in America for a maritime poner of Europe to be poffefled of.

Scotia, in Architecture, a femicircular cavity or channel between the tores in the bafes of columns.

SCOTISTS, a feet of fchool-divines and philofophers, thus called from their founder J. Duns Scotus, a Scottifh cordelier, who maintained the immaculate conception of the virgin, or that fhe was born without original fin, in oppofition to Thomas Aquinas and the Thomifts.

As to philofophy, the Scotifts were, like the Thomifts, Peripatetics (fee Peripatetics); only diliinguiflied by thic, that in each being, as many different qualities as it had, fo many different formalities did they diftinguith ; all dittinet from the body itfelf, and making 2s it were fo many different entities; only thefe were metaphyfizal, and as it were fuperadded to the being.

The Scotifts and Thomilts likewife difagreed about the hature of the divine co-operation with the human will, the meafure of divine grace that is neceffary to falvation, and other abitrufe and minute queftions, which it is needlefs to enumerate.

SCOTLAND, the modern name of that part of the Extent and ifland of Britain which lies to the north of the Solway boundaries. frith and the river Tweed. It is bounded on the north by that part of the Atlantic called the Northern ocean; on the eaft by the German ocean or North fea; on the weft by the Atlantic ocean, and partly by the Irifh fea; and on the fouth by England, the boundary on this fide being formed by the river Tweed, the Cheviot hills, and an ideal line drawn fouth-weft down to the Solway frith. Excluding the iflands, the continental part of Scotland extends from the Mull of Galloway in the 55 th to Cape Wrath in the $58 \frac{1}{2}$ degree of north latitude, and from $I^{\circ} 35^{\prime}$ to $6^{\circ} 20^{\prime}$ weft from the meridian of Greenwich, counting from Buchannefs on the eaft to Ardnamurchan on the weft. If we include the iflands of Shetland and the Hebrides, we fhall find this part of the Britifl empire extending northward to $63^{\circ}$, and weftward to the ifle of St Kilda to $8^{\circ} 18^{\prime}$ weft longitude. The continental part of Scotland is generally eftimated at 260 miles in length, and about 160 at its greateft breadth, and its fuperficial contents have been computed at 27,793 fquare miles.

Scotland has been divided into Highlands and Lowlands ; but the boundaries of thefe are arbitrary and undetermined. A more natural divifion appears to be that into northern, middle, and fouthern parts. The northern part is bounded to the fouth by a range of lakes, extending from the Murray frith to the illand of Mull, in a fouth-weft direction, and comprehends the counties of Oikney, Caithnefs, Sutherland, Rofs, Cromarty, and Invernefs. The fouthern divifion extends northward to the friths of Forth and Clyde, and the canal by which they are united, and comprehends the counties of Linlithgow, Edinburgh, Haddington, Berwick, Renfrew, Ayr, Wigton, Lanark, Peebles, Selkirk, Roxburgh, Dumfries, and Kircudbright. In the midland divifion are included the counties of Argyle, Bute, Nairn, Moray, Banff, Aberdeen, Mearns, Angus or Forfar, Perth, Fife, Kinrofs, Clackmannan, Stirling, and Dumbarton.

In the following table we bave brought together fome of the moft important circumftances refpecting the topography and Itatiftics of thefe counties, viz. the county town, their extent in fquare acres, their population, according to the lateft accounts, and the number of nilitia which each county is obliged to raife, according to lat militia act.


For a topographical account of the feveral counties, the reader is referred to their names in the order of the alphabet.

Scotland is in general extremely mountainous, efpecially on the northern and weftern fides, whence thefe parts have been denominated the Highlands. Even the eaftern and fouthern parts of the country have very little of that uniform flatnefs which diftinguifies fome parts of England, but are agreeably diverfified with hill and dale. Numerous rivers interfect the country ; and feveral romantic lakes are found at the foot of the moft remarkable mountains. There is in general little wood, except in the northern parts, where there are ftill immenfe forets. Vothing can appear more wild and favage to the eye of a ftranger than the Highlands of Scotland. Here the whole country feems compofed of blue roclis and duffy mountains heaped upon each other,
with their fides embrowned with heath, and their fummits covered with fnorr, which lies unthawed for the greater part of the year, or pours down their jagged fides in a thoufand torrents and roaring cataracts, falling into gloomy vales or glens, fome of which are fo deep and narrow, as to be altogether impenctrable by the rays of the fun. Yet even thefe mountains are in fome places floped into agreeable green hills fit for palture, and interfperfed with pleafant ftraths or valleys capable of cultivation; and there are feveral extenfive diftricts of low fertile ground, though in other parts the interftices of the mountains are rendered nearly impaffable by bogs and moraffes. The entrance into the Highlands from the fouth-eaf near Dunkeld, is peculiarly impreffive, there being here a confiderable tract of plain, extending to what may be called the gates of the mountains.

The

Note.-The writers on Scottifh topography have noted the extent of the feveral counties, fometimes in Englif, and fometimes in Scotch acres. We have therefore affixed to the numbers exprefling the acres of each county, F or S , according as they are Englifh or Scotch. The reader may reduce them to sither flatidard by recullesting that the Scotch acre exceeds the Iinglith nearly in the proportion of five to fur.

Scotland. The foil of Scotland, which, colfidering the little variety of the country, is extremely various, will be beft underftood by examining that of the feveral counties, as defcribed under their refpective heads. In fome parts, as the carfe of Gowrie in Perthithire, and moth of the counties of Haddington and Berwick, the foil vies in fertility with the richell parts of England, or even Ireland, while in the more mountainous tracts of ho'sflhire, Sutherland, and Argyle, the coantry is very little adapted to tillage, and is therefore almolt wholly devoted to pafturing large fiocks of fheep and herds of

Monntains. black cattle.
The principal mountains of Scotland are thofe of the Grampians, extending from Loch Lomond to Stonehaven, and forming the fouthern boundary of the Highlands; the Leadhills, partly in Damfries-lli.ire and partly in Lanarkfhire ; the Cheviot hills, forming the principal part of the fouthern boundary, and the Ochil hills, north of the river Forth. The higheft individual momntains are thofe of Ben Nevis, Cairngorum, Ben Lawers, Ben More, Ben Lomond, Schchallien, Mount Battock, and Cruachan. The fituation and direction of the mountainous chains, and the minerals which they contain, have
been defcribed under Geology, No $\mathbf{1}+\mathbf{0}$.

The moft remarkable inlets of the fea on the Scottifh coaft are, the friths of Forth, Tay, Solway, Murray, Cromarty, Dornoch, and Clyde, and the bays of Wigton and Glenluce. Many of what are called lochs, are properly large gulfs or inlets of the fea, efpecially Loch Fine, Loch Shin, Loch Broom, and Loch Linnhe.
The chief rivers of Scolland are the Forth, that divides Stirling and Fife from the Lothians; the Tay, dividing Perth-fhire and Angus thire from Fife- hlire; the Tweed, forming the boundary between Scotland and England to the eaft ; the Clyde, paffing through great part of Lanark-flaire, and feparating this county from thofe of Renfres and Dumbarton; the Die and the Don, pafing through Aberdeen-thire; the Sper, feparating the counties of Banit and Murray; the Sith, paffing through Dumfries-thire, and the Eden in the county of Fife. See each under their refpective names.

Thie lakes or lochs of Scotland, we chienty thofe of Lomond in Dumbarton-fhire, Awe, in Argyie-ftire, Tay, Katrine, and Erne, in Perth-hhire ; Loch Nefs in Invern-fulhire; and the claffical lake of Leven in Kir rofs thire. See Lleven. Lnmexd, Tay, \&c.
We have faid that Scotland is in genersl bare of wood, though thece are numerous traces of its having formerly a ciunded in forefts. The moft remarkable of thefe nas Eutrick foreft in the county of Selkir' ; the foreft of Mar in the well of Aherdeen fhire, where fill remains a corfiderable tract of woorland, called Abernethy 'oreft; the torcil of Cletadale to the north of Dun-Robin in the cocuity of Sutherland; th.ofe of Dirrymore and 1)rrymena, to the north and fouth of Loch Shin, and the forell of Athol in the county of $\mathrm{F}_{\mathrm{t}+\mathrm{t}} \mathrm{l}_{3}$.
T.. climale of Scottard is, if rofthle, fill more in. con: nt than that of F.ngland, and thouch in general extre sely healthy to the ni buil no mut. incer, it is hy no means $g^{\text {n }} 11$ to the valetud narian. The eaftern conit is expor $d$ to the keen nefs of the enft wind during the grealor cart of the year, while the venern ifores, from tieir vicinity to the Atlantic, are deluged with aln:olt
perpetual rain. The winter in this country is remark- Socleat. able, rather for the abundance of frow which falls at that feafon, than for the intenfity of fron ; while in fummer the heat of the fim is retlected with great violence in the narrow viles between the mountains, fo as lometimes to occalion the appcarance of glittering particles that feem to fivim before the eye. ihe barenefs of wood adds to the effects of fidden altemations of the wealher, though it contributes to diminifh the natural humidity of the air. The fpring is in general very late and inclement, fo as not unfrequently to deftroy the fairelt prolpects of the farmer and the gardener. The harvctis are allo late, and we have feen corn either uncut, of flanding in theaves on the field, in the latter end of N vember.

The zoology of Scotland, as diftinguifhed frons that Animats, of England, uffers little rema-kable to the eye of the maturalit. In the northern counties, and in Galloway to the fouth, there is a breed of fmall horfes, like the Welh ponies, called fielties, which are exiremely hardy, but obtfinate and fkittith. The cattle in Galloway are often without horns; a circumffance which is faid to add to the quantity and quality of the mill: which they produce. One of the chief prinitive breeds of cattle in this country are the kylies, fo called from the province of Kyle. Thefe are of a middle fize, and have fhort tharp horns pointing upwards. The Scotch theep are fmaller and fliorter than thore of England, but their Hefh is much more delicate; and the fleeces of the Shetland fleeep are remarkable for the finenefs of their wool. Goats are not rearly fo common in the Highlaids of Scotland as in moft other mountainous tracte, and fwine are very little cultivated, port: not being a favourite food among the inhabitants of North Britain. There feeris to be no breed of dogss peculiar to this country; but the colies or fhepherds dogs are remarkabic for their fagacity, and are often entrulted with the gtardianThip of flocks and herus during their mafer's abfence. There are fearcely any wild quadrupeds peculiar to Scotiond. The wolf, indeed, continued here to a much leter period than in England, and the wild cat is orcafionally obferved. Sn:all herds of roes alfo are fill found in lome of the northern diftricts, and feals and porpoifes frequent the fea coalts.

Of the native birds the black cock and the groufe are the moit remarkable. Eagles are often feen on the rocky cliffs, and elegant falcons in the remaining foreffs. The fhores and iflands prefent numerons fea fowl, and the ifle of Bafs is proverbially the haunt of the folan goofe. The golden-crefled wren is fometimes feen in the motl northern parts of the çountry, but the nightingaie has never yet been feen north of the Tiveed.

The flores of Scotland are abundantly fupplied with filh, efpecially herrings, hadlocks, turbots, and lobfers; and the mouths of the great rivers, efpecially the Tweed and the Tay, furmith an inexhaullible fupply of the finct falmon. Ovfers are plentiful, hut they are not fo del'cate as thofe on the coait of Eflex. Niackerel, wbitings, and finclts, are uncommon, an: 3 fprats aro fearcely hnown. The lakes and ftreams abound in trout. perch, and other frefh-w:iter fith. The whale finnetimes appears on the northorn coaft, and the balkit ghavk on the weftern inilets.

The vegctable productions of Scotland confidered in Tigetablec. general,

## S C. O

general, difier liti.e from thofe of Erigiarid ; and thofe of the whole ifland may be feen by referring to the article Botani, where each Eritiht foecies is marked with an alle itk. We muy remark, that the wazm moit renions of Comnall, Devonkire, and Durlet; the range of ch..k hills that crois the greater part of the banks of the thames; the dry fandy tracts of Nufolk, Sufulk, and Camoridge; and the fen:s of Lincoln-flaire, contan many plants that are citaer unhnown, or very rarely met with in North Britain; while on the other hand, the fnowy femmits of the Grampians, the extenfive forefts of Badenoch and Braeniar, and the blak unfheltered rucks of the Hebudes, poffefs many hardy vegetaules not to be found in the fouthern parts of the itland. South Britain coatains a greater number of fpecies peculiar to itfelf; but thofe that are fimilarly circumtanced in this northern divifion, are of more frequent occurrence. To tie Englih butanit, Scothand will have more the air of a foreisn country, than England to a Scottith botazift. The reluarches of the former will be continually folicited and repaid amid the grand romantic feenety of the II hlands, by the appearance of plants either altogether new to him, or which he has been accultomed to confider as the rare reward of minute inveltigation. In traverfing the natural forefts of birch and pine, though his attention will be firft attracted by the trees themfelves in every thage of growth, from the linber fapling to the bare and weather-beaten trunks that have endured the forms of 500 or 600 winters; the new forms of the humbler vegetables will foon divide his attention, and will each attraft a fhare of his regard. It would be an uninterefting tafk both to us and our readers, to enumerate the ploats more peculiar to Scotland. Thefe may be found in Lightfoot's Flo a Scotica, and many of them in Mr Pinkerton's Giografhy.

Scolland is by no means remarkable for abundance of f:uit. Goofbenries, frawberries, and rafpberries, do indzed ripen nearly as well as in England; and apples, pears, and fome $f_{i} e c i e s$ of wall-fruit, as Orleans plums ani apricots, are not uncommon; but peaches, nectarines, and grapes, are fcarcely feen in the open air; and in the beft gardens we have not obferved the walnut, the mulberry, or the fig. Even the currants, which are very abundant, fcarcely ever attain that degree of ripenefs which can fit them for ule as a deffert, but are employed almoft entirely for jellies and wines. The chief fruit difticts are thofe on the banks of the Clyde.

Few countries polfefs a greater fore of fubterraneous riches than Scotland; molt of the metals, and fome of the moft valuable minerals, being very common. Even gold itfelf has been foutd in the Leadkills, in the fands of Elvan, a rivulet which joins the Clyde, and in the Ochill hills; and a confiderable quantity of filver is annually obtained from the lead mines of Leadhills and Warilockhead. Copper is rare; but has been met with near Alva in the Ochilis; at Colvend in Galloway, and fome other nlaces. The moft remarkable leadmines are thofe of Leadhills and Wanlockhead, Strontian and Iflay; but traces of this metal have been found in other parts. Iron is a moft abundant mineral production, hut that called the Carron ore is beft known. Colalt is fond at Alva; calamine (an impure oxide of zinc) at Wanlockhead; plumbaco or graphite in Ayr.fhire ; and antimony in Durfries flise.

Among the other minerals, coal is to be regarded as Scot'ard. the moft abundant and moft valuable. We have already remarked, under Geotocy, that one of the two chiet beds of coal found in this ifland, is that which runs from the vailcy taverfed by the Tay and the I ortt', welhward to the cuatt of Ayrlhire. The Ieothians and Fife-thire particularly abound with coal ; and it is not leis abundant in th vici-ly of Glafgow, and in feveral places of the counties of $A y z$ and Renfrers.

Scotland may be called the quarry of Britain, as hence is derived moft of the thone that is carried to the fouth for tuilding and powing. Abundance of freettone and limeitone is found in mott parts of the country; and the beauty and dure ility of the loufcs in the New Town of Edinburgh bear ample teltimony to the value of the quariies in that neighbourhood. Beattiful granite is found in Bear Vevis, and fone ftatuary mablie in Aly 14, and in Blaitg ownic in l'certhflire. A black marble rre-hied with white occurs at Fort WVilliam ; jafper is found in various parts; fullers earth occurs near Campleltown, and connderable quantities of talc in the mountains of Findhorn. The bsaatiful quartz of Cairngorum is well known, and mamerous pebbles of agates and onyses are frequenily cullected on the eattern coalt.

The mineral waters of Scotiand are numerous; but Minerat ${ }^{15}$ the principal are thofe of Mofist, D'etcrhead, St Ber-watera. nard's well near Edin'Jurgh, and Pitcaithly. At Moffat are two fprings, one a fulphureous, and the otber from Hartfell a chalybeate water. The water at St Bernard's we!l is Atrongly impregnated with fulphur.

Nany fingular natural curiofities are to be found in Natural cue Scotland. Among thefe the beautiful falls of the Cl de, tiofities. the infulated rock of the Bafs; the icenery about Loch Lomond, and the ifles of Siaffa, Eigg, and Cannay, are chiefly deferving of notice. In the ille of Arran is an immenfe vaulted cavern, hollowed in the folid rock; and near Culvend in Dumfriesihire, and on the eaftern coaft of Fife, are feveral remarkable caves. Nofs head prefents a fingular quarry of flate, marked with metallic figures; and at Glamma in the heights of Glenelchraig, is a cafcade, which, viewed amidit the conftant darkuefs of hills and woods, is truly fublime.

In the parifh of Gaurie in Banffhire are three remarkable natural curiofities; a perpendicular rock of very great extent full of theils, which are polfenid by myriads of birds; a cave, or rather den, called $H_{e} / l$ 's Lum or climney, 50 feet deep, 60 long. and 40 broad, having a fubterreneous paffage to the fea, about 240 feet long, through which the waves are driven with great violence in formy weather, fo as to occafion Imoke to rife from the den ; and another fubterraneous paflige through a peninfula from fea to fea, nearly 450 feet long, and fo narrow that a man can with difliculty creep through it. At one end of this paflige is a cave about 20 feet high, 30 broad, and 150 long, fupported by immenfe columns of sock.

There are three principal groups of Scottifh illands; Scotrik thofe of Shetland and O-kney, to the north of the Pent- ntiands land frith, and that of the Flebudes, Hebrides, or Weftern 11:-s, in the weltern Atlantic. An amole account of thefe will be found under the articles HE:brides, Orksey, and EuLtiaxn; and un er the nazaes of the grincipal individual if.ands. Hac ifles

Snotiarri. of Bute and Arran, which are dilinit from the Hebrides, have alfo been defcribed under their refpective

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Names of North Bri. tain.

The name Scotland, as applied to North Britain, is comparatively of recent datc. By the later Roman writers, Scotia was applied to Ireland, as the country which had been colonized by the Scoti, and the names of Hiberni and Scoti are, after the fth century of the Chriftian era, indiferiminately applied to the inhabitants of Ireland. When North Britain firt became known to the Romans under Agricola, it was by them denominated Caledonia, from its abounding in forefts, and the natives were called Caledoniz. Thefe names continued in ufe till the expiration of the Roman power in Britain, when this part of the ifland was generally known by the name of Provincia Piclorum, and the inhabitants were divided into Picti-Caledomii, and Picit. It is not till the inth century that we find Scotia or Scotland appropriated to North Britain.
With refpect to the origin of this name there is much difpute, but it is generally agreed that the term Scots was applied to the inhabitants of North Britain by their neighbours, by way of reproach.
Few points have been difputed with more keennefs and more afperity than the original population of Scotland. The Iriih and the Scotch have ftrenuoully contefted the claim of their country to be the fock from which the other was colonized. There feems no doubt that both Britain and Ireland were originally peopled by the Celtic tribes, who had long before occupied the weft of Europe, and advanced from the fhores of Gaul, probably acrofs the ftraits of Dover, to take poffeffion of the fouthern part of Britain. Thence it appears they extended themfelves northwards, till they had peopled the whole illand, when, from a fpirit of enterprife, or to find more room and better pafture for their herds, they croffed the channel to the weft of Britain, and planted a colony in Ireland. This feems to be their moft natural route, and numerous authorities have been lately adduced to prove, not only that the whole of Britain and Ireland were peopled by Celtic tribes, but that the colonization of Ireland was fubfequent to that of Scotland. "This region (North Britain) during the firft century," fays Mr Chalmers " is a fmall but gemuine mirror of Gaul during the lame age. North Britain was inhabited by one and twenty clans of Gaelic people, whofe polity, like that of their Gaelic progenitors, did not admit of very ffrong ties of political union. They profeffed the fame religious tenets as the Gauls, and performed the fame facred rites; their fone monuments were the fame, as we know from remains. Their principles of action, their modes of life, their ufages of burial, were equally Gaelic; and above all, their exprefive language, which ftill exitts for the examination of thofe who delight in fuch lore, was the pureft Celtic *."

The names and pofition of the 21 tribes which occupied North Britain in the firft century, have been minutely inveftigated by Mr Chalmers, and we flall here briefly fate the refult of his inveftigations. The firft tribe whicb he mentions is that of the Ottadini, who pofieffed the country which fretches from the river Tyne northward alang the coaft of the German fea and the frith of Forth. On the weft of thefe lay the Ga-
deni, occupying the weftern part of Northumberland, Scotiard. that fmall portion of Cumberland which lies to the north of the river Irthing ; the weft of Roxburghfhire, the whole of Selkirk and Tweeddale, part of Mid Lothian, and nearly the whole of Weft Lothian, or Linlithgow. To the fouth-weft of the Gadeni lay the Selgovac, inhabiting Annandale, Nithfdale, and Efkdale in Dumfries fhire ; the eaftern part of Galloway as far as the river Dee, which formed their weftern boundary; while to the fouth they extended to the Solway frith. The Novantes inhabited the weftern and middle parts of Galloway, from the Dee on the eaft to the Irifl fea on the weft. The Damniz occupied the whole extent of country from the ridge of hills lying between Galloway and Ayrhire on the fouth, to the river Earn on the north, comprehending all Strathcluyd, the counties of Ayr, Renfrew, and Stirling, with a fmall part of Dumbarton and Perth. The Horefii inhabited the country lying between the Forth and Tay, including the flires of Fife, Clackmannan, and Kinrofs, with the eattern part of Strathern, and the country lying weftward of the Tay, as far as the river Brand. The Venricones poffeffed the country between the Tay and the Carron, comprehending a great part of Perth-flire, the whole of Angus, and part of Kincardine-fhire. The Taixali inhabited the northern part of the Mearns, and the whole of Aberdeen-fhire, to the Doveran; a diftrict which included the promontory of Kinnaird's-head, to which the Romans gave the name of Taixalornm promontorium. The Vacanagi occupied the country on the fouth fide of the Murray frith, from the Doveran on the eaft, to the Nefs on the weft; an extent comprehending the fhires of Banff, Elgin, Nairn, the eaft part of Invernefs, with Braemar in Aberdeen-hire. The Albani, afterwards called Damnii Albani, inhabited the interior diftricts, between the lower ridge of the Grampians on the fouth, and the chain of mountains forming the fouthern limit of Invernefs-fhire on the north, including Braidalban, Athol, a fmall part of Lochaber, with Appin and Glenorchy in Upper-Lorn The Attacotti inhabited the whole country from Loch Fine on the weft, to the eaftward of the river Leven and Loch Lomond, comprehending the whole of Cowal in Argyle-flire, and the greater part of Dumbarton-fhire. The proper Caledoniz poffeffed the whole of the interior country, from the ridge of mountains which feparates Invernefs from Perth on the fouth, to the range of hills that forms the foreft of Balnagavan on the north, comprehending all the middle parts of Invernefs and of Rofs. The Cantre inhabited the eaft of Rofs-Aire from the aftuary of Varrar on the fouth, to the frith of Dornoch on the north, having the frith of Cromarty in the centre, and a ridge of hills on the weft. The fouth-eaftern coaft of Sutherland was inhabited by the Logi, whofe country extended from the frith of Dornoch on the fouth-weft to the river lla on the eaf. The Carnabii inhabited the fouth of Caithnef's from the lia river; the fmall tribe of the Ca teni inhabited the north-weft corner of Caithnefs, and the Mertre occupied the interior of Sutherland. The Carnonacre inhabited the north and weft coaft of Sutherland, while the Creones occupied the weft coaft of Rofsfliire, the Cerones the weftern coalt of Invernefs, and the Epidii the fouth-welt of Argyle-nime, from Loch Linnhe to the frith of Clyde.

## $S \quad \mathrm{C} O$

Scotiand. All thefe Celtic tribes, in their laws, religion, manners, and cuftoms, appear to have refembled the Britons of the fouth. Their life was equally fimple, their manant:quities ners were equally favage, and their religion, like that in Siotund of the South Britons, was certainly Drvidical. See Evglind, $\mathrm{N}^{\circ}$ t, and the article Druds. The fact of Druids having exitted in North Britain, fo ftrenuously denied by lome writers, is, in the opinion of Mr Chalmers, completely afcertained by numerous remains of places of Druidical workip. Thefe he has been at much pains to inveltigate, and his defcribed feveral remarkable circles of flones and rocking ftones, refembling in almoit every particular thole in South Britain, which are on all hands allowed to be Druidical. Some remarkable remains of this kind occur in the parith of Kirkmichael in Perthfhire, where there is an immenfe rocking fone ftanding on a flat-topped eminence in the vicinity of a large body of Druidical remains, Oppofite to the manfe of Dron, in the fame county, there is another la:ge rocking fone, ten feet long and feven broad; and in the parith of Abernethy, near Balvaird, there is a third which -ttracted the notice of Buchanan, In the ftewartry of Kircudbright is a llone of a fimilar defcription, called Logan fone, which from its fize appears to be eight or ten tons in weight, and is fo nicely
balanced on two or three protuberances, that the preffure of the finger produces a rocking motion from the one fide to the other *.

It has heen remarked by Dr Robertfon, that the hiftory of Scotland may properly be divided into four periods. The firft reaches from the origin of the monarchy to the reign of Kerneth II.; the fecond, from Kcn . neth's conquelt of the Picts to the death of Alexander III. ; the third extends to the death of James V. the laft, from thence to the acceffion of James VL. to the crown of England. In the opinion of the fame hiltorian, the firt period, extending from the earlieft accounts to the year 843 of the Curitian era, is the region of pure fable and conjecture, and ought to be totally neglected, or abandoned to the induftry and credulity of antiquaries; that in the fecoand period from $\$ 4.3$ to 1286 , truth begins to dawn with a light tceble at firt, but gradually increafing, and that the crents which then happoricd may be flightly touched, but merit no particular or laboricus enquiry ; that in the third period, from 1286 to $154^{2}$, the hiltory of Scotland, chiefly by means of records preferved in England, becomes more authentic, as not only events are related, but their caufes and effects arc explained; and here every Sco'chman fhould begin, not only to read, but to fludy the hittory of his country.

It mulf be allowed that moft of the tranfactions re-

* Caleतto
ria, vol 1.

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Robertion the Scutthe Scutcorded by Buchanan and Boece, as having taken place in Scolland before the Chritian era, are either purely fabulous, or are fubftantiated by no suthentic douments ; and we cannot but contem site w th the fmite of incredulity, the 1 ng and minute lint of Scottifh monarchs from Fergus I. to Fergus II. Is pom oufly difplayed by theie hiftorians. That the nimes of 32 princes thould be handed down with correct ro Ly utcertain tradition, for a period of 690 vmars: th t ithe duration of their reigns and the date of their ecestoun fhe $]^{\prime}$ bc fo caact v a.certained, is furcly a cirr-mitance of the lichert impolability ; atd we are com ciled to ! ! ! L that t'e c.....r wri'ers of Scottith hilt-ry, bhe th. Cbinele ann Hits, I-e defcribed the tranfacint set the 1 mu mationtio der dif: Yol, XTIII. P:A: II.
ferent names, or under the fame names with the defignation of I, I1, III, \&c. This is rendered the more probable by confidering that both Fergus I. and Fergus II. are faid to have been of Irifh extiaction, and to have come over from Ircland to affilt the inhabitants of North Britain againft their more powerful neighbours. Under the pertualion that nothing authentic con be recorded in the Scottich bitto $y$ betore the arrival of the Romans in Britain, we fhall commence the hi torical part of this article from the period when Agricula fuit penetrated north of the Tweed.

It is to the luminous pages of Tacitus that we muft look for the firit rational and authentic documents of Scottith hittory.

The invafion of Agricola happened during the domi nion of a chnef, called by the Ronian killorians Galgacus. Agricola having completed the conquelt of the feuthern part, and in a great meafure civilized the inhabitants, formed a dimilar plan with regard to Scotland. It is probable, that at this time the Caledonians had become formidable by the acceffion of numbers from the fouth ; for though the Romans had civilized the greateft part, it cant ot be doubted that many of thofe favage warrio: difdaining the pleafures it a peaccable lifc, would re tire to the northward, where the martiel daipofition ot the Caledonians would better fuit their inclination. The utmolt efforts of valour, howeser, were not proo. againft tise dicipline of the Roman troops, at.d the evperience of their commander. In the third ycar Agi cola had penetrated as far as the river Tau, (probabiy the Solway Firth, and not the Tay); but the paztizular of his progreds are not recored. The following year he built a line of forts between the fiths of Furth at Clyde, to exclude the Caledunians from the fouthes. parts of the iland; itid the ycar - fter, he fubdued thot parts which lay to the fouth and weft of his forts, nanc1y, the diffricts of Galloway, Cantyre, and Argyle.

Agricola till purfued i.e fame prident meafurss by which he had alicady tecured the puldion o: fuech a large trach of country, that is, advancing but fowly, ard' 'ilding fouts as he adrance $J$, in order to keep $t$ ' pcople in obedience. The Calcdori...s, though cm.manded by their king Galpaces, who is faid to have been well acquainted with the manace of fighting and dicipline of the Romans, were yct obliged to retreat: but at lant, finding that the encmy made fuch progreis as endangered the fubjugation of the whole country, he refolved to cut off their communication with the fouthcrn parts, and likewife to prevent all poffibility of a retreat by fea. Agricola, though folicited by fome of his efficers, refufed to retreat; but divitar his troops into threc bodies, baving a communication with eoch other. U'pon thic, Galgacus refolved to arta- k the weakeft of the three, which confifted only of the rinth legi $n$, and lay at that time, as is faid, at a place callud L.c/s re, about two miles from Loch-Leven in life. The atto h was made in the night: and as the liomans were boit: unprepared and interior in number, the Catedonians nenetrated into the heart of their camp, and were ra: kine a great flaughter, when Agricola detached tome lighiarmed tronps to their affilance; ly whom the Cilcdut ia: s in th ir $1:$ :11 : ere routed, and forced to tly to the max..."s an d ir acculli-1. places, where the enen y could not folls them.

This engrgement has been magnifed hy the Roman


[^28]Stutiand.

## S C O [ 586 ] is C O

 mitid as fuch from the teftimonies of other hiftorians. The Rumana, hwever, certainly advanced very confiderdbl? and the Caledonians as conftantly retreated, till they came to the foot o! the Grampian mountains, where the later $r$ folsed to make their laft itand. In the eightis year of the war, Agricola advanced to the foot of the mountains, where he found the enemy ready to reccive him. Tacitus has given us a fpeech of Galgamats. crs, undoubtedly fabricated for him, in which he tets forth the arpiring dilpolition of the Romans, and cacourages his countrymeu to defend thomielves vigoroully, as knowing that every thing valuable was at fake. A defperate engzgement accordingly enfued. In the beginning, the Britons had the advantage, by the dextesous management of their bucklers: but Agricola havmg ordercd three Tungrian and two Batavian cohorts, wrmed with flort fwords, and embolied bucklers termirating in a point, to attack the Caledonians, who were armed with long fwords, the latter foon found thefe weapons ufelefs in a clule encounter ; and as their buckiers covered only a fnall part of their bodies, they were eafily cut in pieces by their adverfaries. The moff forward of their cavalry and charioteers fell back upon their infantry, and difordered the centre: but, the Britons endeavouring to out-flank their eremies, the Roman zeneral oppofed them with his horfe; and the Caledonians were at laft routed with great ilaughter, and forced to fly into the woods, whither the Rowans purfued with fo lit:le caution, that numbers of them were cut cff. Agriculd, however, having ordered his troops to proceed more regularly, prevented the Caledonians from attacking and cutting off his men in feparate partice, as they had expected: fo that this victory proved the greatell froke to the Calcdonians that they had hitherto received. This battle is fuppofed by fome to lave been sught in Sirathern, half a mile fouth from the ki.k of Comrie ; but others imagine the place to have been near Fortingal-Camp, a place fomerwhat farther on the other fide of the Tay.Great as this victory was, it feems not to have been prociuctive of any folid or latting advantage to the Roinats; fince we find that Agricola, intead of putting an end to the war by the immediate conqueit of all Caledonia, retrested into the country of the Horeltii. Here he received hotlages from pert of the Caledonians; and ordered part of his feet to fail round Britain, that they might difcover whether it was an illand or a centinent. The Romans had no fooner left that part of the country, than the Caledonians demolifed all the forts they had railed: and Agricola being foon after recalled by Domitian, the further progrefs of the Roman arms was fopped; Galgacus proving faperior to any of the fucceffurs of that gencral.

From the time of Agricola to that of Adrian, we know litule of the affirs of Scotland, excepting that daring this interval the Caledonians matt have entirely driven ti.e Romans out of ti.eir country, and reconctuered all il at tract which lay between Argricole's chain of firts ard Carilbe on the weft, and Newcaille or Tinmou h-Bar on the calt ; which Adrian, on viffing Baitain, 1l:ought prenes to fx as the nortion boundary of between the moath of th. Tine and the Solv:y frith, with a vie:s to shat out the barbarians; which, however, did not anfwer the purpufe, nor indced could it be
thought to do fo, as it was only built of uarf, and guard- Scotlanded by not more than $\mathbf{8} 8,000$ men, who could not be fuppofed a fufficient force to defend fuch an extent of fortification.

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In the reign of Antoninus Pius, the proprator Lol. Governlius Urbictis drove the Caledonians far to the north- met of ward, and repaired the clain of forts buili by Agricola, bitus Urwhich lay betwecn the Carion on the frith ot Forth and Dunglafs on the Clyde. Thefe were joined together by turf walls, and formed a much better defence than the wall of Adrian. After the death of Antoninus, however, Commodus having recalled Calpurius A gricola, an able commander, who had kept the Caleconians in awe, a more dangerous war broke out than had ever been experienced by the Romans in that quarter. The Caledonians having paffed the wall, put all the Iomans they could meet with to the fword: but they were foon repulfed by Ulpius Marcellus, a general of confummate abilities, whom Commodus fent into the illand,-In a thort time the tyrant alfo recalled this able commander. After his departure, the Roman dicipline in Britain fuffered a total relaxation; the foldiery grew mutinous, and great diforders enfued: but thele were happily removed by the arrival of Clodius Albinus, a perion of great flill and experience in military aftairs. His prefence for fome time reftrained the Caledonians within proper bounds: but a civil war breaking out between him and Severus, Albinus creffed over to the continent with the greateft part of the lioman forces in Britain; and meeting his antagonift at Lyons, a dreadful battle enfued, in which Albinus was utterly defcated, and his army cut in pieces. See Rome, $\mathrm{N}^{0} 375$.

2 S
The abfence of the Roman forces gave encourage- Wars of Se ment to the Calcuonians to renew their depredations, vetus wits which they did with fuch fuccefs, that the emperor be the Caleducame apprehenfive of lofing the whole illand; on which nians. he determined to go in perfon and quell thele troublefome encmies. The anmy collected by him on this occafion was far more numerous than any the Romans had ever fent into Eritain ; and being commarded by fuch an able çeneral as Severus, it may eafiiy be fuppefed that the Caledenians muft have been reduced to great difficulties. The particulars of this important expedition are very imperfectily related; but we are affused that Severss loft a vaft number of men, it is faid no: fewer than 50,000 , in his march through Scctland. Notwithflanding this, however, he is faid to have penetrated to the molt northern extremity of the ifiand, and obliged the enemy to yield un their arms. On his return, he built a much fironger fortification to fecure the frontiers agair it the enemy than had ever been done before, and which in fome piaces coincided with $\Lambda$ drian's wall, but extended farther at each end. Hut in the miean tirse, the Caledonians, prosuked by the brutality of the emperor's fon Caracalia, whom he had left regent in his adence, again took up arms ; on which Severus himfelf took the field, with a defign, as appears, to extirfate the whole nation; for he gave orders to his foldiers " not to fuare even the child in the mother"s belly." The event of the furious order is unknown: but in all probability the death of the emperor, which bappened foon after, put a foop to the execution of this revenge; and it is certain that his fon Caracalla, whofucceeded Severus, ratified the peace with the Caledonians.

Afer the treaty of Caracalla in 211, perpetual hofti-

Scot?


Tranfa=tions from 211 to $\$ 46$. northern tribes were repelled by the Roman legions under Conftantius, and after his death in 306 , they appear to have remiained quiet till $\hat{343}$, when a frelh inruad of the Picts is riid to hare been repelled by Conftans. In the year 360 , the Scutch are fillt mentioned by Roman writers. They were, as we have laid, an Irith prople of Caledonian extraction, and at this time invaded Scotland, and jointed with the Picts againft the Komans and their tributaries. In 3 da they made a very furmidable attack on the Roman provimcials, and in $36 \%$ had advanced as far as Auyuita, or London, where they were met by The adofius, and were compelled to retire. From this time to $+f 6$, when the Romans finally quitted the Britith illand, nothing remarkable occurs is the hiftory of Scotiand.

Of the Picts, who now begin to make a figute in Scottib hiflory, we have given an account under the article Picts, and fhall here remark only that the name Picti does not properly belong to a new or diftinct tribe of the inhabitants of Nurth Sritain, but was applied about this time to a part of the Caledonians, who inhabited a confiderable tract of country north of the friths of Forth and Clyde; and that the dominion of their hings, of whom a long lith is given by Mr Chalmers, extended from the year 451 to $\$_{4}$, when it unally terminated.
Appearance In the middle of the fecond century, one of thefe of a colony turbulent tribes which long involved Ireland in contelt from Ire- and difienfion, pofienied themfelves of the north-eant corInd.
Av. $55_{3}$. ner of Ireland, under the condut of Cairbre-Riada; and from the name of their leader gave to this diftrizt the denomination of Dal. Riadn, or the portion of Riada. The fixth century had fcarcely commenced, when the progrefs of population and the fpirit of enterprife induced a number of the inhabitants of Dal-Riacia to emigrate to the oppofite coalt of North Brilain, led by three chicis Loarn, Fergus, and Argus, the three fons of Erc, the defcendant of Cairbre-Riada, who then ruled over the Dalriadan tribe. They landed in the counry of the Epidii, in the fouth-well of ArgyleAhire, about the year 503. Thefe colonies, who to the time of Bede, were denominated Dalriadini, brought with them their language, religion, manners and cuftoms, which differed in fome relpects from thofe of the Celtic tribes which had long occupied the nortin of Britain.

In the records of time there fcarcely ocenrs a pei: I of hiftory fo perplexed and confuled as that afforied by the annals of the Scoto-Irifh tribes, from their fettlement in 503 to their ultimate afcendency in 843 . The went of cotemporaneous writings left an ample fied for the couflicts of national emulation. Ignorance and ingenuity, Cophiftry and fyftem, contributed by various efforts to darken what was already fufficiently obfcure. There remain, however, in the fitler iflands, various documents of fubfequent compilation, which throw confiderable light on the obfcure tranfactions of the Scoto- Irith tribes, and eable us to unravel the e cangled genealogies of toeir kings. Thefe confift cliefly of the Iifh annals of Tigernoch and of Ullter, with the ufeful ohfervations on them of O.Flaherty and O*Connor; of feveral brief chronicles and hiftorical documents firlt brought to light by Innes.; and of a Gaclic pocm, containung a geneala
gical actount of the Scoto-Irifh kinge. From thefe Scotland. ducaments Mr Chalmers his confructed an elaborate genealogical and chronolesical thbe of thole kings, from lergus to Kemeth Macalpin, from Nhich we thall extract the two mot important columns, thesing the date of accettion, and the duration of the reigns of the feveral monarchs.

|  | $\begin{aligned} & \text { lecel } \\ & \text { fues: } \end{aligned}$ | Ret ${ }^{\text {a }}$ |
| :---: | :---: | :---: |
| 1. Fergus the fon of Erc. | 5<3 | 3 |
| 2. Domangart the lon of Fergus, | 506 | 5 |
| 3. Comgat, ion of Dumangart, | 511 | 2.4 |
| 4. Gauran, fon of Domangart, | 5.5 | 22 |
| 5. Conal, fon of Comgal, | 557 | 14 |
| 6. Aidan, fon of Gauran, | 571 | 34 |
| 7. Eocha-bui, the fon of Aidan, | 605 | 16 |
| 8. Kenneth-cear, fon of Eocha-bui, | 621 | $\frac{8}{4}$ |
| 9. Ferchar, fon of Eogan, firft of Loara's race, | 621 | 16 |
| 10. Donal-breac, fon of Eocha-bui, | 637 | 5 |
| 11. Conal II. granulfon of Conal I. | $6+2$ | 10 |
| 12. Dungal reigned lome years with Co nal, <br> 13. Denal-Duin, fon of Conal, | 652 | 1.3 |
| 1.1. Maolduin. fon of Conal, | 665 | 16 |
| 15. Feichar Fada, grandion of Ferchas I. | 681 | 21 |
| 16. Eocha-Rineval, fon of Domangart, | 702 | 3 |
| 1\%. Ainbhcealach, fon of Terehar-Fada, | 725 | 1 |
| 18. Selvach, fon of Ferchar-Fida, reigned over L.oarn from 706 to 729 , |  |  |
| 19. Duncha beg over Kintire till $; 25$, 20. Eecha 1II. ion of Eucha rinwal over | $7=5$ | 27 |
| Kintyre and Argail from 720 to 729 , and over Loam from 729 to 73.3 , |  |  |
| 21. Niuredach, fon of A inblhcealach, | 733 | 3 |
| 22. Eogan, fon of Muredach, | 736 | 3 |
| 23. Audh-Fin, fon of Eocha III. | 739 | $3{ }^{3}$ |
| 24. Fergus, fon of Aodh-Fin, | T09 | 3 |
| 25. Selvach 1I. fon of Eogan, | 772 | 24 |
| 26. Eocha-Anneune IV. ton of AodhFin, | 796 | 35 |
| $2 \%$. Dungal, fon of Selvach II. | 26 | 7 |
| 28. Alpin, fon of Eocha-annuine IT. | 833 | 3 |
| 20. Keneth, fon of $A_{1} 1 \mathrm{in}$, | 8.6 |  |

We fiall not attompt to follow Mr Chalinérs througls the detail of cvents which he has narrated as taking place during the reigns of the Scuto-Irith hings. Whatever light he may have thrown on this obfcure part of Scuttith history, it muft fill remain uninterelting, except to the antiquary, and the minute hiftorian. It is of more importance to the general reader, to be informed of the manners and cuftoms, the polity and the lizws of the tribes that occupied the chief part of North Britain at the acceffion of Kenneth 1I. from whofe reign, as we have aiready rowarked, the Scottih hiltury begins to dawn.

We lave faid that the Dalriadinian culonifts brought Laws and with the:n from Ireland, and eftablifhed in their new fet enftoms oi tlements, their peculiar laws and cufloms. According scuto-1itith to the le laws, the fucceflion both of the kings and chief-

Scotian tains was fo regulated, that the perfon in the family who feemed beft qualified, from abilities or experience, to exercile the chief authority, whether a fon or a brother, was fixed on by the tribe for the fucceffion to the racant throne or chieftainnip. Much of the dignity of the monarch was fupported by the voluntary contributions of his vaffal princes and chiefs, paid in cattle, clothes, and utenifls; and the monarch was compelled to purchafe the fervice and affiltance of thefe chicfs by fimilar prefents; in confideration of which they entertained the fovereign in his' joumeys, and ferved him in his wars during a limited period. A fimilar polity appears to have pervaded all ranks amoong the Scoto-Irifh people, from the king to the piince, and from the prince to the chieftain. The toparch governed bis diltrict as the monarch governed lis kingdom; and the chieftains ruled their territories and their fortified villages, on the fame principles of mutual dependence, of the higher on the lower, and of the fubordinate on the fuperior ranks. Such brittle ties were eafily broken; and during thefe rude times, when the voice of law was but faintly heard, the performance of thofe reciprocal duties could be enforced only by the dread of affaffination, and the breach of them punifhed only by the fword.

The Scoto-Irifh women, of whatever rank, feen not to have been entilled to the flighteft poffefion of land, under the Brehon law. To them were effigned a certain number of their father's cattle as their marriagefortion. The herds of the Scoto-Irifh were fo frequently within their contemplation, and during a rude tate of fociety fupplied fo many comforts to their poffeffors, that the native terms which fignify poffefion, or a field, alfo convey the idea of a herd or drove. Yet fuch is the copioufnefs of the I.ih language, that it has a great variety of terms which convey the notion of a law; but we may infer from thefe law-terms, with their feveral modifications, that the people of whom we are feaking had little of pofitive fatute, or written law; their whole body of jurifprucience confiling almoft entirely of traditionary cuftoms, and local ufages. According to Cox, it was no written law, but only the vill of the brehon or lord. And it is obfervable that thefe brehons held their offices by defcent and inheritarce, and of courfe were not qualified for the poffs to which he fucceeded. The brehon or judge, when he adminittered juftice, ufed to fit on a turf or heap of flones, or on the top of a hillock, without covering, and without clerks, or any of the ufual formaliies of a court of judicature. Some remains of this ftate of laws and manners may be traced in fome parts of Scotland to the prefent period. Every ba:on had his motehill, whence he diffributed ju ice to his vaffals, either in perfon, or by his baron ballie. Under the brehon fyftem all crimes were commutable; theft, rape, and even morder, were puniflied by a fine.

It was an ancient cuffom of the efe tribes, that every head of every fept, and the chief of every clan, fhould be anfwerable for each of thein fept or kindred, when charged with any crime; and it is remarkable that both in freland ad Scotland this ancient cull in was adopted into the flatute book. Th.e protection of be swas a great head of the buchon laws. The Scoto. Irith territories were folly pe ple 1 by th:s irduatrious race, and their honey fupplied ah mina ce of $n$ cand, the favourite beverage of the ancient Litituns. In vaia do the Irilh arti-
quaries give us plendid fictures of the learning, opulence, and refinement, of the ancient Irilh; the laws of every people are the truct hiftories of their domentic affairs. While we fee that the wealth of thefe tribes confifted of their bees and their cattle, we may certainly infer, that they had only advanced from the firt to the fecond Atage of fociety, from hunters to feeders of flocks. In this unrefined itate the Scoto-Irifa long continued, as is evident from their rent-rolls.

It is apparent that more of wretchednefs than of comfort prevailed among the Dalriadinian diftricss in every rank of fociety. Their ben houfes were built of wattles ; and buildings of lime and fone were late works of more intelligent times. The cloathing even of the monks was the flins of beafts, though there is no doubt that they obtained from abroad, by means of traffic, both woollen and linen ftuffs. Venifon and fifh, the flefh of feals, and milk, conflituted the food of the people; but the monks of Iona, who lived by their labour, and perhaps the chiefs, had fome provifion of corn. The moft unbounded hofpitality was enjoined by law, as well as by manners, as a capital virtue. Manufactures and trades exercifed as a profeffion were unknown. Every family had its own carpenter, weaver, and floomaker, however unkilful and inadeqquate to the ufes of civilization thefe homely workmen might appear.
The Scoto-Irifh tribes were not deflitute of fhipping, which confifted partly of canoes, and partly of a more fkilfully conflructed kind of veffels called currachs. Thefe were formed by covering a keel of wood and a frame of wicker-work, with Rkins of cattle and of deer, and by experience thefe rude boats were improved into roomy veffels, that ferved either for tranfports or for war.

Of the various cuftoms of the Scoto-Irifh, that of foferage has been regarded as a fubject for particular fpeculation. By this fingular cuftom, children were mutually given from different families to be nurfed by frangers. The lower orders confidered this truft as an honour, rather than a fervice, for which an adequate reward was either given or accepted. The attachment of thofe who were thus educated is faid to have been indiffoluble; for, according to Camden, there is no love in the world comparable to that of fofter-brethren in Ire- * Cbailand. From this praetice arofe a connection of family, mers's Cizo and a union of tribes, which often prompted and fome- vol.:
times prevented evil feuds ${ }^{*}$. times prevented evil feuds *.

The Dalriadinian tribe which colonized the fouth-State of reweit of Scotland, in the beginning of the fixth century, thyion in profeffed the Chriftian religion, shich had been intio- the Gth
duced into Ireland in the midale of the preceding century. They did not, however, introduce into Scotland a new religion, for there is realon to believe that the benign intluence of Cliriltianity bad been felt in thofe paris of North Britain which were inacceffible to the Roman power fo early as the beginning of the third century ; and the Romanized Britons of Talencia, called by Bede the fouthern Piets, had been converted from the fupertitions of Druidifin at the commencrment of the fifth century. This reforination is atirituted to St Niman, a native of the country of the Novaites, bom of noble parentage, about the yoar 36 . (See NiNJA). S. Ninias died on the 16 th Soptemilur 432 ; on which di. a "ellis. I in honour of I is Eamc was cc'ebrated in Britain for many ages. About the middle of the fixth

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Stotland. century, appeared Kentigern, a Chriftian bifhop, who fixed his refidence'at Alcluyd, in the kingdom of Cumbria. He contributed much towards improving the fate of religion in North Britain, where he continued his infructions with little interruption till the year 601. Cotemporary with Kentigern was the celebrated Columba, who converted the northern Piets, and has always been held in the higheft veneration as one of the principal faints in the North Britifh calendar. He eltablihed the feat of his ecclefiatical academy in the fmall illand of Hy , or Iona, which had been conferred on him either by Connal, king of the Scoto-Irith, or Bridei, the Pictilh fovereign. Here he fettled with his 12 difciples, and laboured for two years with their own hands in erecting huts, and building a church. In the courfe of a few years Columba had converted Bridei, King of the Pitts, and moft of his fubjects, and had eltablithed monafteries in feveral parts of the Caledonian territories. (See Columba).

Before entering on the reign of Kenneth, it may be proper to take a fhort view of that of his father and predeceffor, Alpin, as in his reign commenced thofe bloody conflicts between the Scots and Piets which finally ter- minated in the fubjugation or expullion of the latter.

At the acceffion of Alpin, the dominion of the Scots comprehended the Weflern iflands, together with the diltricts of Argyle, Knapdale, Kyle, Kintyre, Lochaber, and a part of Breadalbane ; while the Piets poffeffed all the reit of Scothnd, and part of Northumberland ; fo that the Piets feem to have been by much the more powerful people of the two. The Scots, however, appear to have been literior in military Nill ; for A1pin, the fuccefior of Dongal, having engaged the Pictifh army near Forfar, after an obitinate engagement defeated them, and killed their king, though not without the lofs of a great number of his own men. The Piets chofe Brudus, the fon of their former king, to fucceed him; but foon after depofed and put him to death, on account of his itupidity and indolence. His brother Kenneth fhared the fame fate on account of his corrardice; till at laft another Brudus, a brave and fpirited prince, afcended the throne. Having raifed a potverful arany, he began with offering terms of peace to the Scots ; which, however. Alpin rejected, and is. filted on a total furrender of his crown. Brudus on this endeavoured to procure $t^{\prime}$ : affiftance of Edxin king of Northumberland. Edwin accepted tie money offered by ijrudus ; but pretendir, to be engaged in other wars, reiuled the affiffance which he at firit promifed. Brudus, not difmayed by this difappointment, marched refolutely agsint his enemies; and the two arnies came to an engagement near Dundee. The fuperior fkill of the Scots in military affairs was about to have decided the vietory in their favour, when Brudus thought of the following fratagem to prefer ve his arny from deftruction. He caufed ail the attendant, and even the women tho attended his army, to s Temble and flow themfelves at a dilance a, a to cont cinsorcement coming to the Picts. Tlli= tirmk the Suots with fuch a panic, that all the eff re.i l|ri.i.c ald not re-
times Bas-alpin, which in the Gaelic language fignifies scotlañ. the death of Alpis. His head was afterwards lluck upon $\underbrace{\text { (1) }}$ a pole, and expoled on a wall.
Alpin was fucceeded by his fon Kenneth II, who Reign of being a brave and enterpriing prince, refolved to :ake Kinneth If. a molt fevere rerenge for his father's death. The Scots, however, were fo difpirited by their late defeat, that they were exceedingly averle to any renewal of the war; while, on the other band, the Picts were fa much elated, that they made a law by which it became death for any man to propofe peace with the Scots, whom they refolved to exterminate ; and fome of the nobility were expelled the council on accourt of their oppofition to this law. The conlequence of this was, that civil diffenfions took place among them, and a bloody battle was fought between the oppofite parties, before the Scots had thought of making any farther refillance.

By thefe diftractions Brudus, who had in vain endeavoured to appeafe them, was fo much affected, that he died of grief, and was fucceeded by his brothier Drufken.-The new prince alfo failed in his endeavours to accommodate the civil differences; fo that the Scots, by gaining refpite, at laft began to recover from their confternation ; and fome of them having ventured into the Pictilh tereitories, carried of Alpin's head from the capital of their dominions, fuppofed to have been Abernethy. In the mean time, Kenneth found means to gain over the nobility to his fide by the following ftratagem ; which, however ridiculous, is not incredible, if we confider the barbarifm and fuperlition of that age. Having invited them to an entertainment, the king introduced into the hall where they flept a per Stinter for clothed in a robe made of the $\mathbb{f k}$ ins of fifhes, which of Kenne" made fuch a luminous appearance in the dark, that he the was. was miftaken for an angel or fome fupernatural meffenger. To add to the terror of thofe who faw him, he denounced, through a feeaking trumpet, the moft terrible judgements, if war was not immiediately declared againft the Picts, the murdcrers of the late king. In confequence of this celctial admonition, war was immediately renewed with great vigour. The Piets were not deficient in their preparations, and had now procured fome afifance from England. The firlt battle was fuught near Stirling; where the Picts, being deferted by their Engliih auxiliaries, were utterly defeated. Drufken efcaped by the iwifnefs of his horfe, and a few days afier made application to Kienneth for a ceffation of bollilities ; but as the Scottill monarch demanded a furrender of all the Pidifh dominions, the treaty was inRanuly backen off. Kenneth purfued his good fosiunc, and conquered the counties of Merns, Ar gus, and life; b th as lie marched againt Stirling, he received intelli. gence that thele counties had again revolted, and cut off all the garritons which he had le.?, and that Drulken $\boldsymbol{w}$ is at the head of a condderable army in thefe parts. O: this her neth haflened to oppofe him, and a negocia ion again took place. The refult was equally unfavumable with the reft. Kenne'h infiked on an al felute furrender of the countice of 「iie, Mearn:, and Arel; and as $t^{\prime}$ ras refufed, loth parties preparet for decifive battle. Thic eng gemem was very bital d defer rute, the Piots firfting like men in if,it. - .keti 1 enewed the battlie !even times; bu: - '

Sctiani. turely defen 1 and killed, and the counties in difpute became the immediate property of the conqueror.

Kenneth did not fail to improve his victory, by reducing the re? of the lictin territories; in which be is faid to have behaved with the greatell crueity, and even to have totally exterminated the inhabitants. The capital, called Camelon, (luppofed to have been Abernethy), held out fout months; but was at lait taken by fi:rprife, and every living creature dellroyed. This was followed by the reduction of the Maiden Caftle, now that of Edinburgh: which was abandoned by the garrifon, who tied to Vorthumberland.

After the reduction of thefe important places, the reit of the country made no great refiftance, and Kenneth became mafter of all the kingdom of Scotland in the prefent extent of the word; to that he is juftly to be elteemed the true founder of the Scottifh monarchiy. Befides this war with the Picts, Kenneth is faid to have been fucceffful againit the Saxons, though of thefe wars we have ve:y little account. Having reigned 16 years in peace aties lis fubjugation of the Picts, and compoled a code of laws for the good of his people, Kenneth died of a fitula, at Fort Teviot, near Duplin in ${ }^{\text {Perthihire. Before his time the feat of the Scots go- }}$ vernment had been in ArgyleAhire; but he removed it to Scone, by transferring thither the famons black fone, fuppofed to be the paliadium of Scotland, and which was afterwards carried off by Edivard I. of England, and lodged in Weflminter abbey. is is reprefented as a man of the worit character; fo that the remaining Piets who had fled out of Scotland were encouraged to apply to the Saxons fo: affitance, promifing to make Scotland tributary to the Saxon power after it fhould be conquered. This propofal was accepted; and the confederates invaded Scotland with a powerful army, and took the town of Bervick; however, they were foon afice defeated by Dunald, who took their ihips and provifions. 'This capture proved their ruin; for fome of the flips being laden with wine, the Scots indulged themfelves fo much with that liquor, that they became incapable of defending themfelves; in confequence of which the confederatec, rally- ing their troops, attacked them in that flate of intoxication. The Scots were defeated with exceflive flaughter. Twenty thoufand of the common foidiers lay dead on the fipot ; the king and his principal nobility were taken prifoners, and all the country from the Tweed to the Forth became the property of the conquerors. Still, however, the confederates found themfelves unable to purfue their vichory farther; and a peace was concluded, on condition that the Saxons fhould become mafters of all the conquered country. Thus the Forth and Clyde became the fouthern boundaries of the Scottifh dominions. It was agreed that the Forth fhould from that time forward be called the Scots fea; and it was made capital for any Scotiman to fet his foot on Finglith ground. They were to erect no! rts near the Englifily conEncs; to pay an annual tribute of a thoufand pounds, and to give up 60 of tha fors of their chief nobility as hoitager. A mimi "as ereed by the Saxon prince name O/fereth, at Stirinis ; and a crofs raifed on the bridge at that place, with the following infeription, implying that this place was the boundary between Scotland and Engla:id ;

Anglos à Sialis feparat crux ifa remmis Arma lici fant Brinti, flant Scotifub hac ciuce tutt.

After the conciufion of this treaty, fo kumiliating to the Scots, the Picts, finding that their intereat had been entirely neglected, lied to Narway, while thoie who remained in England were niafidgred. Donald fhared the common fate of unfortunate princes, being dethroned and fhut up in prifon, where he at lait put an end to his own life in the year 858 .-In juftice to this unhappy monarch, however, it muft be obferved, that the character of Donald, and indeed the whole account of thefe tranfactions, rells on the credit of a fingle author, namely Boece; and that other writers reprefent Donald as a hero, and fucceffful in his wars: but the obfcurity in which the whole of this period of Scottifh hiftory is involved, renders it impoffible to determine any thing fatisfactory concerning thefe matters.

Donald was fucceeded by his nephev Confantine, Reign of ${ }^{49}$ the fon of Kenneth Mac Alpin, in whole reign Scot-Conftantine land was firlt invaded by the Danes, who proved fuch Ans $\$_{3}$ formidable enemies to the Englith. This invafion is faid to have been occafioned by fome exiled Picts who fled to Denmark, where they prevailed upon the king of that country to fend his two brothers, Hungar and Hubba, to recover the Pieiih dominions from Con-Scort 42 flantine. Thefe princes landed on the coaft of Fife, eated by where they committed the moft horrid barbarities, not the Danes. fparing even the ecclefialtics who had tahen refuge in the ifle of May at the mouth of the Forth. Conitantine defeated one of the Danith armies commanded by Hubba, near the water of Leven; but was himfelf defeated and taken prifoner by Hungar, who caufed him to be beheaded at a place fince called the Devil's Cave, in the year 874 .

This unfortunate action colt the Scots 18,000 men : but the Danes leem not to have purchafed their viftory very eafily, as they were obliged imnuediately afterwards to abandon their conquelt, and retire to their own country. However, the many Danilh monuments that are liill to be feeh in Fife, leave no room to doubt that many bloody feenes have been afted here between the Scots and Dianes befides that above n:entioned.

Conflantine was fucceeded hy his brother Eth, fur- I: $\mathrm{h}^{42}$ named the $S_{w i f t}$-footed, from his agility. Concerning An. ssiv. him we find nothing memorabie ; indeed the accounts are fo confufed and contradictory, that it is impofible to form any decifive opinion concerning the tranfactions of this reign. All agree, however, that it was but thort; and that he was fucceeded by Gregory the fon of Dongal, contemporary with Alfred of Eingiand, and that both princes defervedly acquired the narne of Great. The Danes at their departure had left she PiCls in pof - 43 feffion of Fife. Againt them Gregory immediately cregory marched, and quickly drove thenz into the north of the Great. England, where their confederates were already mafters Ans SS3. of Northsmbe:iand and York. In their way thither they threw a garrifon into the town of Berwick; but this was prefently reduced by Gregory, whoo put to the froord all the Danes, but lpared the lives of the Picts. From Berwick, Gregory purfued the Danes into Northurrberland, where he defeated them; and paTed the winter in Berwick. He then marched against the Cumbrians, who being mofly Piets were in alliance with the Danes. He eafly overcame them, and obli-

## S C O $\left[\begin{array}{lll}591\end{array}\right] \quad$ S C O

## $\underbrace{\text { Sentand. }}$

ged them to yield up all the lands they had formerly pofferied belonging to the Scots, at the lame time that he agreed to protect them from the power of the Danes. In a fhort time, loosever, Conffantine the king of the Cumbrians viokited thie convension he had made, ard invaded Annundale; but was defeated and killed by Gregory near Loclmaben. After this victory Cregery cntirely reduced the counties of Cumberiand and Weitmoreland, which, it is faid, were ceded to him by AIfred the Great ; and indeed the fituation of Aificd's eftairs at this time renders fuch a ceflion by no means improbabie.

We next find Gregozy engaged in a war with the Irift, to fupport Donach, an Irifi prince, arainft two rebellious noblemen. The Irifh were the firlt aggreffors, and inwaded Galloway; but being repulled with great $\operatorname{lo}{ }^{\text {c }}$, Gregory wept over to 1 lreland in perfon, where the two chieftaines who had been enemies to each other before, now joined their forces in order to oppofe the common enemy. The firit engagement proved fatal to one of their chiefs named Brian, who was killed with a great number of his followers. After this viftory Gregory reduced Dundalk and Drogheda. On his way to Dublin he was oppoted by a chieflain numed Corncil, who thared the fate ot his confederate, being alfo kilied, and his army entirely defeated. Gregory then became guardian to the young prince whom fie came to afith, aprointed a regency, and obliged them to fwear that they would nerer admit into thee country either a Dane or an Engltituman rithrut his confent. Havirg then piaced garrifons in the llronceit fort:elles, he returned to Scotland, where he built the city of Abercicen; and died in the year 892, at his caftle of Dunlore in the Carioch.
Donad dII. Gregory was fucceeded by Donald III. the fon of An $\$_{93}$. Conflantine, who imitated the virtues of his predeceffor. The Scots hithorians manimoufly agree that Northumberland was at that time in the hands of their countrymen; while the Englith as unanimouty affirm that it was fulject to the Drnec, who paid homage to Alfred. Ee this a it will, however, Donald continued to live on good terms with the English monarch, and fent him a body of farces, whe proved of confiderable adventage to him in his wars with the Danes. The reign of Det:ald was but fhort; for having marched againat fome rubber (probably Danes) who had invaded and ravaged the countics of Murray and Mois, he died at Forres foon after, having defeated and fubdued them in the year 923 . He was fucceeded by Con. ftantine III. the fon of Eth tlie Sivit fooied, cen. cerning whom the moft remarkable parlicular which we find related is his ertering into an aliance with the Dnes acainft the Englifh. The uccifion of this confederacy is fail to hove been, that the linglihm monarch, Edvard the E:der, finding the Scots in puffufion of the nor.hern counties of Encland, made fuch eviravagant demands on Conflantine as obliged hin to form an alli ance with the Danes in order to rreferve his dominions in focurity. However, the league fubfifted enly fre two ye:re, afier which the Dares found it more for ! eir atron age to refume their ancient friendmip with the E lik.
is fonn as Conftantine had concleded the traty wit th: Dance, ke ampointed the prefumntive beir to the Scottif crown, Malcolin, or, accosding to fome,

Eugene the fon of the late king Donald, prisce of the Sootiand. fouthern couthies, on condition of his dotending them pegairft the atlacks of the Englith. The sourt prince lad loon an opportunity of excating his valour: but not behaving with the reguigie cautuin, he had the nision tune to be defeated, with the lolis of almoit all his army, he himfeli being carried wounded out of the Gel. ; and in conferzence of this dizafter, Comblanilie was ouliged? to do homage to Jidward for the pofieffions he bad to the fouthward ui the Scots bonadary.

In: the testinning of the rei;21 of Atherian the fon of Etward the Elier, the northin Dancs were encouraged by fome conffiracies formed againf that monarch to throw off the yuke: and their fucce's was fuch, that Atheiftan thonght proper to enter into a treaty with Sithric the Danith chief, and to give him his daughter in marriariz. Sithric, however, did not long furvive his nuptials; and his fon Guthred, endenvouring to throw of the Englifl yohe, was defeated, and obliged to fly into Scollard. This produced a feries of holtilities between the Scots and Enghith, which in the year 9as brought on a general engagement. At tlis time the Scots, Irilh, Cumbrians, and Dinec, were confedemted agai it the Englifi. The Scots were commanded by their king Conftantine, the lrilh by Aulaf the beother of Guthred the Darifh prince, the Cumbrians by their own fovereign, and the Dancs by Froda. The generals of Athelfan were Edmund his brother, and Turketil his farourite. The Ing1:h attacked the entrenchments of the confedcrates, where the chief reffllance which they encountered was from the Scots. Conftantine was in the, utmoft danger Is uttery of being killed or taken prifoner, but was refoned by refeated by the bravery of his foluiers: howevcr, after a moft ob- the Englithe finate engafement, the confederates were defeated with fuch hanghter, that the flain are faid to have been in. num-ral.ve. The confenuence of this victory was, that the Scots were deprived of all their poficilions to the fouthward of the Forth; and Conftantine, quite diffirited with his misfortune, refigned the crown to Malcolm, and retired to the monattery of the Cuidecs at Si Andrew's, where he died five yeers atier, in 9Hi.
The diflefies which the Englith fuftained in their? fublequent wars nith the Danes gave the Seots an opportunity of retrieving their affiss and in th.e yeat 944, we find Malcolm, the fieceffer of Conflantine, invelied with the fovereignty of Northumberiand. on conditior of his holding it as fief of the crown of England, and affifting in defence of the $n$ rtiern border. Soen afier the conclufice of this treaty Mialcolm died, and was fuccesded by his fon Ind lits. In his reign the Veu inval I) face-ded bex forme bide ber I) ance became extremety formidable by their invafions, Danses unwhich they now renewed with greater fury than ever, be-der nouling evafperated by the friendllip fubfiting beween the fus. Soots and Englith monarchs. Their firft defcent was upon Eaft Lotrian, where they were fom cxp:lled, but croffed over to Fife. Here they nere a fecond time defeated, and driven out; and fo well had Indalfus taken care to guard the coafts, that they could not find an opportunity of latiding; till having feemed to fteer towards their own eountry, the Scots were thrown off their guard, and the Danes on a fudden made gond their landivg at Culien, in Barifishire Here Indulius foon ever up with them, attacked their camp, and drove them towarus their hips, but was killed in en ambul-

Scotiatd. cade, into which he fell during the purfuit. He was fucceeded by Duffus, to whom hillorians give an excellent character; but, after a reign of five years, he was murdered, in the year 965 . He was fucceeded by Culen the fon of Indulfus, who had been nominated prince of Cumberland in his father's lifetime, as heir-anparent to the throne. He is reprefented as a very degenerate prince; and is faid to have given himielf up to the groffett fenfuality. The people in the mean time were Heeced, in order to fupport the extravagance and luvury of their prince. In confequence of this, an aflembly of the ftates was convened at szone for the refettling of the government; but on his way thither Culen was affaffinated, near the village of Methven, by Rochard, thane or fherif of Fife, whofe daughter the king had debauched.

The provocations which Culen had given to his nobility feem to have rendered them totally untractable and licentious; and gave occafion to a remarkable revolution in the reign of Kenneth III. who fucceeded

Culen. This prince, being a man of great refolution, began with rclieving the common people from the oppreffions of the nobility, which were now intolerable; and this plan he purfued with fo much fuccefs, that, having nothing to lear from the great barons, he ordered them to appear before him at Lanark; but the greateft part, confcious of their demerits, did not attend. The king fo well diffembled his difpleafure, that thofe who came were quite charmed with his affability, and the noble entertainment he gave them; in confequence of which, when an affembly was called next year, the guilty were encouraged to appear as well as the innocent. No fooner had this affembly met, however, than the place of meeting was befet with armed men. The king then informed them that none had any thing to apprehend excepting fuch as had been notorious offenders; and thefe he ordered to be immediately taken into cuftody, telling them, that their fubmitting to public juftice mutt be the price of their liberty. They were obliged to accept the king's offer, and the criminals were accordingly punifhed according to their delerts.

About this time Edgar, king of England, finding himfelf prefled by the Danes, found means to unite the king of Scotland and the prince of Cumberland with himleif in a treaty againft the Danes; which gave occafion to a report that Kenneth had become tributary to the king of England. This, however, is utterly denied by all the Scots hiftorians; who affirm that Kenneth cultivated a good correfpondewe with Edgar, as well becatif be expected affillance in defending his coafts, as becaufe he intended entirely to alter the mode of fucceffion to the throne. About this time the Danes made a dreadful invatt n . Their original intention feems to have been to 1 nd on fome pait of the Englifh coafts; but findin o thefe too well suarded, they landed at Montrofe in Scutland, committing every where the moft dreadful ravages. Kenneth was then at Stirling, and quite wre ared; however, having collected a handful of troops, he cut off many of the chemy as they were ftraggling up and down, but could not prevent them from befieging Purth. Neverlhelefs, as the King's army conitantly increafed, he refolved to give the enemy tattle. The feene of this action was at Loncarty, near Perth. The king is fold to have offered ten pounds in
filver, or the value of it in land, for the head of every Scotlsod Dane which thould be brought him ; and an immunity from all taxes to the foldiers who lerved in his army, provided they fhould be victorious: but, notwithlfand- Defeats the ing the utmuft efforts of the Scots, their enemies fought Danes. fo defperately, that Kenneth's army muft have been totally defeated, had not the fugitives been flopped by a 5 r yeoman and his two fons of the name of Hay, who Rife of the were coming up to the battle, armed with fuch ruftic family of weapons as their condition in life afforded. Buchanan Errob and Boece inform us, that thcfe countrymen were ploughing in a field hard by the fcene of action, and perceiving that their countrymen fled, they loofed their oxen, and made ufe of the yokes as weapons, with which they firft obliged their countrymen to fand, and then annoyed their enemies. The fight was now renewed with fuch fury on the part of the Scots, that the Danes were utterly defeated; and, after the battle, the king rewarded Hay with the barony of Errol in the Carfe of Gowrie, ennobled his family, and gave them an armorial bearing alluding to the ruftic weapons with which they had atchieved this glorious exploit.

In the year 994, Kenneth was murdered at the in-Kenneth ftigation of a lady named Fenella, whofe fon he had murdered. caufed to be put to death. The murder was perpetiated in Fenella's caftle, where fhe had perfuaded the king to pay her a vifit. His attendants waited long near the place; but being at length tired out, they broke open the doors, and found their king murdered: on which they laid the caftle in afhes; but Fenella efcaped by a poftern. The throne was then feized by an ufurper named Confantinc; who, being killed in battle after a reign of a year and a half, was fucceeded by Grime, the grandfon of King Duffus; and he again was defeated and killed by Malcolm the fon of Kenneth, the lawful heir of the Scottifh throne. After this victory, Malcolm 11 . however, Malcolm did not immediately affume the fo- An. 1003 . vereignty; but anked the crown from the nobles in confcquence of a law paffed in the reign of Kenneth, by which the fucceflion to the throne of Scotland became hereditary. This they immediately granted, and Malcolm was accurdingly crowned king. He joined himfelf in flrict alliance with the king of England; and proved fo fuccefsful againit the Danes in England, that Sweyn their king refolved to direct his whole force againft him by an invafion of Scotland. His firt attempt, however, proved unfuccefsful; all his foldiers being cut in pieces, except fome few who efcaped to their mips, while the lofs of the Scots amounted to no more than 30 men. But in the mean time, Duncan, prince of Cumberland, having neglected to pay his homage to the king of England, the latter invaded that country in conjunction with the Danes. Malcolm took the field againft them, and defeated both; but while he was thius employed in the fouth, a new army of Danes landed in the north at the mouth of the river 54 Sney. Malcolm adranced againft them with an army The Scots much inferior in number; and his men, neglecting every teated by thing but th.c blind impulfes of fury, were almoft all the Dabes, cut to picces; Malcolin himelf being defperately womded.

By this victory the Danes were fo much elated, that they font for their wives and children, intending to fettle in this coirtitry. The cafle of N.im, at that time thought almoft imprugnable, fell inso their hands; and

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Brotland. the torms of Elgin and Forres were abandoned both by $\xrightarrow{4}$

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But defeat them:n a fecond battie. their garrifons and inbaioitants. The Scots were everywhere treated as a conquered people, and employed in the moit fervile olices by the haughty conquerors; who, to render the caitle of Nairn, as they thought, abfolutely impregnable, cut through the finall ithmus which joined it to the land. All this time, however, Malcolm was raifing forces in the fouthern counties; and having at laft got an army together, he came up with the Danes at Mustloch, near Balveny, which appears at this day to have been a ftrong Danifh fortification. Here he attacked the enemy; but having the misfortune to lofe three of his general officers, he was again obliged to retreat. However, the Danih general happening to be killed in the purfuit, the Scots were encouraged to renew the fight with fuch vigour, that they at laft ootained a complete victory; but fuffered fo much, that they were unable to derive from it all the advantages which might otherwife have accrued.

On the news of this ill fuecefs, Sweyn ordered two fleets, one from England, and another from Norway, to make a defcent upon Scotland, under the command of Camus, one of his molt renowned generals. The Danes attempted to land at the mouth of the Forth; but finding every place there well fortifed, they were obliged to move farther northward, and effected their parpofe at Redhead in the county of Angus. The caltle of Brechin was firft befieged; but meeting with a ftout refiltance there, they laid the town and church in afhes. From thence they adranced to the village of Panbride, and encamped at a place called Karboddo. Malcolm in the mean time was at hand with his army, and encamped at a place called Barr, in the neighbourhood of which both parties prepared to decide the fate of Scotland; for as Moray and the northern provinces were already in the poffeflion of the Danes, it was evident that a victory at this time mult put them in poffeffion of the whole. The engagement was defperate, and fo bloody, that the rivulet which proceeds from Loch Tay is faid to have had its water dyed with the blood of the flain; but at laft the Danes gave way and fled. There was
at that time in the army of Malcolm, a young man of the name of Keith. He purfued Camus; and having overtaken him, engaged and killed him; but another Scots officer coming up at the fame time, difputed with Keith the glory of the action. While the difpute lafted, Malcolm came up; who fuffered them to decide it by fingle combat. In this fecond combat Keith proved alfo victorious, and killed his antagonilt. The dying perfon confeffed the juftice of Keith's claim; and Malcolm dipping his finger in his blood marked the fhield of Keith with three ftrokes, pronouncing the words Veritas vincit, "Truth overcomes," which has ever

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fince been the armorial bcaring and motto of the family of Keith (B).

Siweyn, not yet difcouraged, fent his fon Canute, af- Another terwards king of England, and one of the greatelt war- invafion. riours of that age, into Scotland, with an army more powerful than any that had yet appeared. Canute landed in Buchan; and, as the Scots were much weakened by fuch a long conimued war, Malcolm thought proper to act on the defenfise. But the Scots, who now thought themfelves invincible, demanded to be led on to a general engagement. Malculm complied with their defire, and a battle enfued ; in which though neither party had much realon to boalt of victory, the Dancs were fo much reduced, that they willingly concluded a peace on the following terms, viz. That the Peace cono Danes fhould inmediately depart from Scotland; that cluded. as long as Malcolm and Sweyn lived, neither of them fhould wage war with the other, or help each other's enemies; and that the field in which the battle was fought thould be fet apart and confecrated for the burial of the dead. Thefe fipulations were punctually fulfilled by Malcolm, who built in the neighbourhood a chapel dedicated to Olaus, the tutelar faint of thefe northern nations.

After performing all thefe glorious exploits, and becoming the fecond legiflator in the Scottifh nation, Malcolm is faid to have ftained the latter part of his reign with avarice and oppreffion; in confequence of which he 60 was murdered at the age of 80 years, after he had reign- Malcolm ed above 30 . This affaffination was perpetrated while aflafinated. he was on his way to Glammis. His own domeftics are faid to have been privy to the murder, and to have fled along with the confpirators; but in paffing the lake of Forfar on the ice, it gave way with them, and they were all drowned. This account is confirmed by the fculptures upon fome ftones erected near the fpot; one of which is ftili called Malcolm's grave.flone; and all of them exhibit fome rude reprefentations of the murder and the fate of the affaflins.

Malcolm was fucceeded, in the year 1034, by his Duncan $\mathrm{I}_{\text {. }}$ grandfon Duncan I. but he is faid to have had another An. 1034' grandfon, the famous Macbeth; though fome are of opinion that Macbeth was not the grandfon of Malcolm, but of Fenella who murdered Kenneth III. The firf years of Duncan's reign were pafted in tranquillity, but domeftic broils foon took place on the following occafion. We are told by fome hiforians that Banquo, a nobleman of great eminence, acted then in the capacity of fteward to Duncan, by collecting his rents; but being very rigid in the execution of his olfice, he was way-laid, robbed, and almoft murdered. Of this outrage Banquo complained as foon as he recovered of his wounds and could appear at court. The robbers were 4 F fummoned
(B) Mr Gordon, in his Itinerarium Septentrionale, obferves, that in all probability the Scots gained two victories over the Danes on the prefent occafion; one near the place called Karboddo, already mentioned; and the other at Aberlemno, four miles from Brechin. At both places there are monuments with rude fculptures, erected moft probably in memory of a victory. That at Karboddo is called Camus's crorfs; near which, fomewhat more than a century ago, a large fepulchre, fuppofed to be that of Camus, was difcovered. It confifted of four great flones; and had in it a huge fieleton, fuppofed to be that of the Danifh prince. The fatal flroke feemed to have been given him on the back part of the head ; a confiderable portion of the fkull being cut away, probably by the itroke of the fword.

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Scotlanc. fummoned to furrender themfelves to juftice; but inftead of obeying, they kulled the meflenger. Macbeth reprefented this in fuch ffrong terms, that he was fent with an army to reduce the infurgents, who had already deliroyed many of the king's friends. This commiffion be performed with fuch fuccefs, that the rebelchief put an end to his own life ; after which Macbeth fent his head to the king, and then proceeded with the utmolt feverity

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A new invation by the Danes;
${ }^{3}$ againf the infurgents.

This infurrection was fearcely quelled, when the Danes landed again in Fife ; and Duncan put himfelf at the head of an army, having the thanes Macbeth and Banquo ferving under him. The Danes were commanded by Sweyn king of Norway, and eldeft fon of Canute. He proceeded with all the barbarity natural to his nation, putting to death men, women, and children, who fell in his way. A battle was fought between the two nations near Culrofs, in which the Scots were defeated: but the Danes purchafed their victory fo dearly, that they could not improve it ; and Duncan retreated to Perth, while Macbeth was fent to raile more forces. In the mean time Sweyn laid fiege to Perth, which was defended by Duncan and Banquo. The Danes were fo much diftrefled for want of provifions, that they at laft confented to treat for peace, provided the prefling necefities of the army were relieved. The Scots hiftorians inform us, that this treaty was fet on foot in order to amufe Sweyn, and gain time for the ftratagem which Duncan was preparing. This was no other than a barbarons contrivance of infufing intoxicating herbs into the liquors that were fent along with the other provifions to the Danifh camp. Thele foporifics had the intended effect ; and while the Danes were under their influence, Macbeth and Banquo broke into their camp, where they put all to the fword, and it was with कfficulty that fome of Sweyn's attendants carried him on board ; and we are told that his was the only thip of all the fleet that returned to Norway. It was not long, however, before a frefh body of Danes landed at Kinghorn in the county of Fife: but they were entirely defeated by Macbeth and Banquo. Such of the Danes as efcaped fled to their flhips; but before they departed they obtained leave to bury their dead in Inchoolm, a fmall illand lying in the Forth, where one of their monuments is fill to be feen.

Thus ended the formidable invafions of the Danes; after which Duncan applied himfelf to the adminillration of juftice, and to reform the manners of his fubjects.

While he was thus exerting himfelf for the good of his fubjects, his general, Macbeth, who had been fo much diftinguifhed in the Danifh wars, was plotting the affaffination of the king, and the ufurpation of the throne. To thefe purpofes, it appears, Macbeth was inftigated by his wife, the lady Gruoch, daughter of Kenneth IV. who, as we have feen, was flain by Malcolm II. the grandfather of Duncan. This lady had been married to Gilconagain, the maormor of Murray, and after his death had efpoufed Macbeth, the maormor of Rofs. This account of Lady Macbeth fhews that it was a fpirit of revenge for the murder of her grandfather, which prompted her to inftigate her hußband to the affiffination of Durican. This affaffination took place in 1039, not near Invernefs, as related by Shakefpeare and the hiftorians whom he has copied, but at

Bathgowanan, near Elgin, within the territory of Gru- Scetland. och. Duncan left two infant fons, Malcoim and Donald, of whom the former, on the death of his father, fled to Cumberland, and the latter found an afylum in the Weftern Illands. Macbeth having thus gratified his wife's revenge, and his own ambition, took polfefion of the vacant throne.

During the greater part of the reign of the ufurper, Rtign of Malcolm, the truc heir to the crown of Scotland, kept Macbeth. within his principality of Cumberland, without any An. 1039. thoughts of afcending his father's throne. Macbeth for lome time governed with modcration, but at laft became a tyrant.

A mong the numerous fables with which the flory of Macbeth has been decked, muft he ranked the murder of Banquo, and the efcape of his fon Fleance, the fuppofed primogenitor of the houfe of Sterart. Hillory knows nothing of Banquo the thane of Lochaber, nor of Heance his fon. None of the ancient chronicles nor Irilh annals, nor even Fordoun, recognize the names of Banquo and Fleance, thorgh the latter be made by genealogifs the root and father of many kings. Nor is a thane of Lochaber known in Scottilh hiltory, becaufe the Scottifh kings had never any demefnes within that impervious diftrict *.

* Chalmer'。

Macduff, the thane of Fife, was the mof powerful Calcdonia, perfon in Scotland ; for which reafon, Macbeth deter- vol. i. mined to deftroy him. On this Macduff fied to France ; P. 412. and Macbeth cruelly put to dcath his wife, and children 66 who werc yet infants, and fequethered his ellate. Mac. Macbech duff vowed revenge, and encouraged Malcolins to at- iriven out, tempt to dethrone the tyrant. Macbeth oppoled them with his whole force; but being defeated in a pitched battle, he tock refuge in the moil inaccuffible places of the Flighand, where he defended himfelf for two years; but in the mean time Malcolns was acknowledged king of Scotland, and crowned at Scone.

The war between Macbeth and the new king conti- ${ }^{67}{ }^{6}$ nued for two years after the coronation of the latter; but at lan he was killed in a fally by Macduff, at Lumphanan, on the 5th of Decr. 10 56. However the public tranquillity did not end with his life. His followers elected one of his kinfmen named Lullach, furnamed the Idiot, to fucceed him; but he not being able to withfland Malcolm, withdrew to the north, where being purfued, he was killed at Effey in Strathbogie, after a reign of four months.

Malcolm being norv eftablified on the throne, be-Malcollm gan with rewarding Macduff for his great fervices; and III effaconferred upon his family four extraordinary privileges: blified on I. That they flould place the king in his chair of flate the Scottifh at the coronation. 2. That they fhould lead the van throne. of all the royal armits. 3. That they fhould have a regality within themfelves: and, 4 . That if any of Macduff's family fhould happen to kill a nobleman unpremeditately, he floould pay 24 marks of filver, and, if a pleheian, 12. The king's next care was to reinflate in their fathers poffeffions all the children who had been difinherited by the late tyrant ; which he did in a convention of his nobles held at Forfar. In the time of William the conqueror, we find Malcolm engaged in a dangerous war with England, the occafion of which was as follows. On the death of Edrard the Confeffor, Harold feized the throne of England, to the prejudice

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$\underbrace{\text { Sentanch of Elgar Atheling the true heir to the crown. How- }}$ ever, he created hin carl of Oxford, and treated him with great refpect ; but on the defeat and death of Harold, William difcovered fome jealouly of Edgar. Sown after, Wiilliam having occafion to pay a vifit to his dominions in Normandy, he appointed Edgar Atheling to attend him, along with fome other noblemen whom he fufpected to be in his interelt; but on his return to England, he found the people fo much difaffected to his government, that he proceeded with great feverity, which obliged great numbers of his fubjects to take refuge in Cumberland and the fouthern parts of Malcolm's dominions. Edgar had two fifters, Margaret and Chriftina : thefe, with his two chief friends, Gofpatric and Martefinin, foon made him fenfible how precarious his life was under fuch a jealous tyrant, and perfuaded him to make preparations for flying into Hungary or fome foreign country. Edgar accordingly fet fail with his

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## Entertains

 Edgar, an Engtih prince. mother Agatha, his two fiters, and a great train of Anglo-Saxon noblemen; but by ftrefs of weather was forced into the frith of Forth, where the illuttrious exiles landed at the place fince that time called the gueen's Ferry. Malcolna no fooner heard of their landing than he paid them a vifit in perfon; and at this vifit he fell in love with the Princefs Margaret. In confequence of this, the chief of Edgat's party repaired to the court of Scotland. William foon made a formal demand of Edgar; and on Malcolm's refufal, declared war againft him.William was the moft formidable enemy whom the tween Scot. Scots had cver encountered, as having not only the whole land and force of England, but of Normandy, at his command. ungland. However, as he had tyrannized moit unmercifully over his Englid fubjects, they were much more inclined to effitt his enemies than their own prince; and he even found himfelf obliged to give up the county of Northumberland to Gofpatric, who had followed Edgar, upon condition of his making war on the Scots. This nobleman accordingly invaded Cumberland; in return for which Malcolro ravaged Nothumberland in a dreadful manner, carrying off an immenfe booty, and inviting at the fame time the Irih and Danes to join him.

By this time William had taken from Gofpatric the earldom of Northumberland, and given it to Robert Cummin one of his Norman barons; but the Northumbrians having joined Gofpatric, and received the Danes as their countrymen, nurdered Cummin and all his followers at Durham, where they had been guilty of great cruelties. After this they laid fiege to the forts built by William in Yorkfhire ; but not being able to reduce thens, the Englihh, Scots, and Danes, united their forces, took the city of York, and put to the fivord three thoufand Normans who were there in garrion; and this fucce?s was followed by many incurfions and ravages, in which the Danes and Northumbrians acquired great booty. It fonn appeared, however, that thefe allies had the intereft of Edgar no more at heart than the Irift ; and that all the dependence of this forlorn prince was upon Malcolm, and the few Englifhmen who had followed his fortune: for the booty was no fooner obtained, than the Danes retired to their flips, and the Northumbrian* to their habitations, as if they had been in parfect fafety. But in the mean time WilYiam, having raifed a confiderable army, advanced northwards. He firft inflited a levere revenge upon
the Northumbrians; then he reduced the city of York, Scotland. and put to death all the inhabitants; and perceiving that danger was flill threatened by the Danes, he bribed them with a fum of money to depart to their own country.

Malcolm was now left alone to encounter this formidable adverfary; and, finding limfelf unable to oppofe fo great a force, withdrew to his own dominions, where lie remained for fome time on the defenfive, but not without making great preparations for once more invading England. His fecond invafion took place in A fecond the year 1071 , while William was employed in quelling ${ }^{\text {mivafics. }}$ an infurrection in Wales. He is faid at this time to have behaved with the greateft cruelty. He invaded England by Cumberland; ravayed Teefdale; and at a place called Hundreds-keld, he maffacred fome Englith noblemen, with all their followers. Thence he marched to Cleveland in the north riding of Yorkflire; which he alfo ravaged with the utmoft cruelty, fending back the booty with part of his army to Scotland: after which, be pillaged the bifhopric of Durham, where he is faid not to have fpared the moft facred edifices, but to have burnt them to the ground. In the mean time Gofpatic, to whom William had again ceded Northumberland, attempted to make a diverfion in his favour, by invading Cumberland: but being utterly defeated by Malcoln, he was obliged to thut himfelf up in Bamborough caftle; while Malcolm returned in triumph with his army to Scotland, where he married the princefs Margaret.

The next year William, having greatly augmented Willam his army, invaded Scotland in his turn. The parti- queror in. culars of the war are unknown; but it certainly ended vades Scutmuch to the difadvantage of the Scots, as Malcolm lavid. agreed to pay him bomage. The Englift hiftorians contend that this homage was for the whole of his dominions; but the Scots with more reafon affirm, that it was only for thofe he poffeffed in England. On the conclufion of the peace, a crofs was erected at Stanmore in Richmondflire, with the arms of both kings, to ferve as a boundary between the poffefions of William and the feudal dominions of Malcolm. Part of this monument, called Re-crofs, or rather Roy-crofs, or The crofs of the kings, was entire in the days of Camden.

This peace between Malcolm Canmore and William produced the greatef alteration in the manners of the Scots. What contributed chiefly to this was the excellent difpofition of Queen Margaret; who was, for that age, a pattern of picty and politenefs: and next Reformato this was the number of foreigners who had fetted tion tet on in Scotland; among whom were fome Frenchmen, who ioot by the laid the foundation of that friendfuip with the Scots kiog and which lafted for ages. Malcoln himfelf, alfo, though scotiaid. by his ravages in England he feems naturally to have bcen a barbarian, was far frum being averfe to a reformation, and even fet the exsmple himfelf. During her hufband's abfence in England Queen Margaret had chofen for her confeffor one Turgot, whom fhe alfo made her affitant is her intended reformation. She began with new-modelling her own court ; into which fie introduced the offices, furnitere, and manner of living, common among the more polite nations of Europe. She difmifed from her fervice all thofe who were noted for immorality and impiety; and charged Turgot, on

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Scotland. $\xrightarrow{\text { Scorln }}$ pain of her difpleafure, to give his real fentiments on the ftate of the kingdom, after the bell inquiry he could make. By hinu the was informed, that faction reigned among the nobles, rapine among the commons, and incontinence among all degrees of men. Above all, he complained that the kingdom was deftitute of a learned clergy, capable of reforming the people by their example and doctrine. All this the queen reprefented to her huiband, and prevailed upon bim to fet about the work of reformation immediately. In this, however, he met with confiderable oppofition. The Scots, accuftomed to opprefs their inferiors, thought all rellrictions of their power fo many fiteps towards their liavery. The introduction of foreign offices and titles confirmed them in this opinion; and fuch a dangerous infurrection happened in Moray and fome of the northern counties, thai Malcolm was obliged to march againft the rebels in perfon. He found them, indeed, very formidable; but they were fo much intimidated by his refulution, that they intreated the clergy who were among them to intercede with the king in their favour. Nalcolm received their fubmiffion, but refufed to grant an unconditional pardon. He gave all the common people indeed leave to return to their habitations, but obliged the higher ranks to furrender themfelves to his pleafure. Many of the moft guilty were put to death, or condemned to perpetual imprifonment; while others had their eftates confifcated. This feverity checked the rebellious fpirit of the Scots, and Malculm returned to his plans of reformation. Sill, however, he found himfelf oppofed even in thofe abufes, which were moft obvious and glaring. He durlt not entirely abolih that infamous practice of the landlord claiming the firft night with his tenant's bride; though, by the queen's influence, the privilege was changed into the payment of a piece of money by the bridegroom, and was afterwards known by the name of mercheta mulierum, or " the woman's merk." In thofe days the Scots had not the practice of faying grace after meals, till it was introduced by Margaret, who gave a glafs of wine, or other liquor, to thofe who remained at the royal table and heard the thank lgiving; which expedient gave rife to the term of the grace-drink. Befides this, the terms of the duration of Lent and Eafter were fixed; the king and queen beftowed large alms on the poor, and the latter wafhed the feet of fix of their number; many churches, monafteries, \&c. were erected, and the clerical revenues augmented. Notwithltanding thefe reformations, however, fome hiftorians have complained, that, along with the manners of the Englift and French, their luxuries were alfo introduced. Till this reign the Scots had been remarkable for their fobriety and the fimplicity of their diet; which was now converted into excefs and riot, and fometimes ended fatally by quarrels and bloodfted. We are told, at the fame time, that even in thofe days, the nobility ate only two meals a-day, and were ferved with no more than two difhes at each meal.

In the year 1079, Malcolm again invaded England; but upon what provocation, or with what fuccefs, is not well known. But in 1089, after the death of the Conqueror, he again efpoufted the caufe of Edgar Atheling, who had been reduced to implore his affiftance a fecond time, when William Rufus afcended the throne of England. At the time of E.dgar's arrival, Malcolm was at the bead of a bave and well difciplined army,
with which lie penetratcd a great way into the courtry Scotiand. of the enemy; and, as is fid, returned to Scotland with an immenfe booty. Wiiliam refolved to revenge the injury, and prepared great armaments both by fea and land for the invafion of Scotland. His fuccef, however, was not aniverable to the greatnets of his preparations. His fleet was dathed to pieces by ftorms, and al. mult all on board of it perifled. Naicolm had allo laid wafte the country through which his antagonif was to pafs, fo effectually that Wiilliam loft a great part of his troops by fatigue and famine; and, when he arrived in Scotland, found himfelf in a fituation very little able to refint Malcolm, who was advancing againft him with a powerful army. In this dilltefs, Kufus had recourfe to Robert de Mowbray earl of Northumberland, who The Eng difluaded him from hazarding a battle, but advifed lift army him to open a negociation by means of Edgar and in great the other Englifh noblemen who refided with Mal- dangefo colm. Edgar undertook the negociation, on condition of his being reitored to his eftates in England; but met with more difficulty than he imggined. Malcolm had never yet recognized the right of William Rufus to the throne of England, and therefore refufed to treat with him as a fovereign prince; but offered to enter into a negociation with his brother Robert. The two princes accordingly met; and Malcolm, having fhown Robert the difpofition of his army, offered to cut off his brother William, and to pay to him the homage he had been accuftomed to pay to the Conqueror for his Englifl dominions. But Robert generoufly anfwered, that he had refigned to Rufus his right of prinoogeniture in England; and that he had even become one of William's fubjects, thercby accepting of an Engliih eftate. $A_{n}$ interview with William then followed; in which it was agreed that the King of England thould refore to Peace conMalcolm all his fouthern poffeffions, for which he thould pay the fame homage he had been accuttomed to do to the Conqueror ; that be fhould refore to Malcolm 12 difputed manors, and give him likewife 12 merks of gold yearly, befides reftoring Edgar to all his Englihi eftates.

This treaty was concluded in Lothian, according to the Englifh hiforians; but at Leeds in York (hire, according to the Scots. However, the Englifh monarch looked upon the terms to be fo very dihonourable, that he refolved not to fulfil them. Soon after his departure, Edgar and Robert began to prefs him to fulfil his engagements; but receiving only evafive anfwers, they paffed over into Normandy. After their departure, William applied himfelf to the fortification of his northern boundaries, efpecially Carlife, which had been deftroyed by the Danes 200 years before.-As this place lay within the feodal dominions of Malcolm, he complained of William's proceeding, as a breach of the late treaty ; and foon after repaired to the Englifh court at Gleuceiter, that he might have a perfonal interview with the king of England, and obtain redrefs. On his arri- $7^{78}$ val, William refufed him admittance to his prefence, recommenwithout paying him homage. Malcolm offered this inced. the fame manner as had been done by his predeceffors, that is, on the confines of the two kingdoms ; but this being rejected by William, Malcolm returned to Scotland, and prepared again for war.

The firf of Malcolm's military operations now proved fatal to him; but the circumitauces of his death are

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Scota:akl. variouly related. It is generally believed that while profecuting the fiege of Alnwick in Northumberland, he was furprifed by Earl Moubray, by whom it was defended, and flain, together with his eidell fon Edward, on the 19th November, 1093. Queen Margaret, who was at that time lying iill in the cattle of Edinburgh, died tour days of ier her husband.

## so

After the death of Malcolm Canmore, the throne ufurped by was afurped by his bruther Donald Bane; who, notDonald withfanding the great virtues and glorious atchiereBanc. An. 1093. ments of the late king, had been at the head of a frong party during the whole of his brother's reign. The ufurper, giving way to the barbarous prejudices of himfeli and lis countrymen, expelled from the kingdom all the foreigners whom Malcolm had introduced, and oblised them to take refuge in England. Edgar himfelf had long refided at the Engliih count, where he was in high reputation; and, by his interefl there, found means to refcue his nephew, young Edgar, the king of Scotland's eldeft furviving fon, out of the hands of the ufurper Donald Bane. The favour which he flowed him, howerer, produced an accufation againft himfelf, as if he defigned to adopt young Edgar as his fon, and fet him up as a pretender to the Englifh throne. This accufation was preferred by an Englifhman whofe name was Orgar; but, as no legal proofs of the guilt could be obtained, the cuftom of the times rendered a fingle combat be-
81 Iween the parties unavoidable. Orgar was one of the frongelt and mofl active men in the kingdom; but the age and infirmities of Edgar allowed him to be defended by another. For a long time none could be found whd would enter the lifts with this champion; but at laft one Godwin of Winchefler, whofe fanily had been under obligations to Edgar or his anceftors, offered to deferd bis caufe. Orgar was overcome and killed: and, when dying, confeffed the fallehood of his accufation. The conqueror obtained all the lands of his adverfary, and William lived ever afterwards on terms of the fricteft friendhhip with Edgar.

This combat, trifling as it may feem to us, produced very confiderable effects. The party of Edgar and his brother's (who had likewife taken refuge at the Englifh court) revived in Scotland, to fuch a degree, that
s2 Donald was obliged to call in the Danes and Nor- wegians to his affiftance. In order to engage them more effectually to bis intereft, the ufurper yielded up to them the Orkney and Shetland iflands; but when his new allies came to his affiltance, they behaved in fuch a manner as to become more intolerable to the Scots than ever the Englifh bad been. The difontent was greatly increafed when it was found that Will liam defigned to place on the throne of Scotland a natural fon of the late Malcolm, named Duncan, who had ferved in the Englifh armies with great reputation. Donald attempted to maintain himfelf on the throne by the affiftance of his Norwegian allies; but, being abandoned by the Scots, he was obliged to thy to the ifles, in order to raife more forces; and in the mean time Duncan was crowned at Scone with the ufual folemnity.

The Scots were now greatly dißireffed by two ufurpers who contended for the kingdom, each of them fupported by a forcign army. One of them, however, was foon difpatched. Nalpedir, thane of Mearns, furprifed Duncan in the caftle of Monteith, and killed
hinn; after which he replaced Donald on the throne. Scotland. The affection of the Scots, however, was by this time $\underbrace{\text { Sorer }}$ entirely alienated from Dunald, and a manifelt intention of calling in young Edjar was fhown. To prevent this, Donald offercd the young prince all that part of Scotland which lay to the fouthward of the Forth; but the terms were rejected, and the meffengers who brought them were put to death as traitors. The king of Ligland alfo, dreading the neighbourhnod of the Norwegians, interpofed in young Edgar's favour, and gave Atheling the command of an army in order to reftore his nephew. Donald prepared to oppofe his ene- 83 mies with all the forces he could raife; but was defert-pofed by ed by the Scots and obliged to fly: his enemies purfued Edgar. him fo clofely, that he was foon takien; and being brought before Edgar, he ordered his eyes to be put out, condemning him at the fame time to perpetual banillment, in which he died fome time after.

With Donald Bane may be faid to have terminated the line of Scoto-lrith kings, which had filled the throne of Scotland from the invation of Fergus in 506 , to the year 1097, the date of Donald Bane's defeat, comprehending a period of 591 years. Edgar the new monarch was of Saxon delcent, and as in his perfon a new dynafty commenced, it may be proper to take a brief furvey of the flate of Scotland on his accefion, or at the clofe of the eleventh century.
We have feen that from the time of Kenneth II. the state of ${ }_{5}$. Picts were either expelled from Scotland, or had been Scotland at gradually incorporated with the Scoto-Irifl tribes. At the clofe of the period of which we are now treating, Scotland was the 1uth fubdivided into 13 difrricts, viz. thofe of Lothian, Gal centur). loway, Strathcluid, Fife, Strathern, Athol, Angus, Mern or Mearos, the extenfive diftrict between the Dee and the Spey, comprehending Aberdeen and Banff, and the diffricts of Murray, Argyle, Rofs, and Sutherland. Moft of thefe diftricts poffefied within themfelves, an independent authority, exercifed by the thane. The clans of the diftinct diftricts poffeffed rights which the regal power could fcarcely controul : they were governed by their own culloms, and the king could neither appoint nor difplace their chieftains. The notion of a body politic having an acknowledged authority to make laws, which every individual and every dillrict were bound to obey, was fcarcely known. The kings and the maormors were fo independent of each other in their refpective flations, that the power of the fuperior over his vaftal was but little felt, though it was acknowledged, and was often refifled, becaule it could not eafily be enforced. The fame law which directed the fucceffion of the kings, operated equally, and with fimilar effects, in the fucccffion of every chieftain. Thie cuftom called tanifry, already explained in $\mathrm{N}^{\circ} 32$, was the common law of North Britain throughout the ScotoIrih period. The Brehons continued to be judges throughout every diftrict of Scotland, and were regulated in their judicial proccedings, by the common cuitoms of the country, and the ufual manners of the times.

One of the moff fingular cufloms introduced by the Maniers Scoto-Irith colonits, and which prevailed for many fuc-and cufceeding 'ages, was the ufe of flug-horns, or war.crics.toms. Each clan had its appropriate flug-horn. Thus, that of the Mackenzies was Tullochard, or the high hill; that of the Grants, Craig.clachiu, rock of alarm. (Iften

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Sotland. they were fimply the name of the clan, as $A$ Home, $A$ Home, for the family of Hume ; A Douglas, A Douglas, for that of Douglas. At this time the nobility ufed no armorial bearings, which we are affured were not adopted before the reign of William the Lion, on whofe efcutcheon the lion rampant firf appeared as a national badge. Neither feals nor coins appear to have been in ufe, but all commerce confifted in barter.

Edgar was fon of Malcolm Canmore by Margaret,
Reign of
Edgar.
An. 1097. an Anglo-Saxon princefs, and was till very young when he afcended the Scottilh throne. The education which he had received from his mother, the experience which he had acquired under the Englifh government in Northumberland, the eftablifhment of his authority over North Britain by the power of that government, all induced him to imitate the Englifh rather than the Scottifh cuftoms, during his feeble adminiffration.

He had fcarcely afcended the throne of his father when Magnus, the enterpriing king of Norway, appeared in the furrounding feas, in order to compel the fubmifion of his fubjects in the Orkneys and Hebudes, and to plunder or overawe the inhabitants of the neighbouring flores of England, of Man, and of Iteland. Had Magnus attempted a defcent on the coaft of Scotland, he would probably have met with little oppofition from Edgar, in whom the appearance of the Norwegian prince appears to have excited confiderable apprehenfion. From this, however, he was relieved by the death of Magnus, in 1103. Three years before had died William Rufus, whom Edgar confidered as a benefactor; and in the fame year, his fifter Matilda had been married to Henry I. Thus, both from prudence and policy, Edgar avoided all difputes with England, and either his intereft or his weaknefs prevented him from interfering with the then embroiled tate of the Luropean continent. He paid confiderable attention to the internal regulation of his kingdom, efpecially in ecclefiaftical matters. He conferred on the monks of St Cuthbert at Durham, many churches and lands near Berwick; and he befowed the church of Portmoak in Kinrofs, on the Culdees, and that of Gellold on the monks of Dunfermling. It does not appear, however, that in this religious age he founded any remarkable religious houle. He died at Dun-Edin without iflue, on the 8 h of January 1106 , having reigned nine years. He has been characterifed as an amiable man, who formed himfelf in the model of Edward the Confeflor, of England. From the filence of hiftory we may infer that his reign was barren of events; and from the feeblenefs of his character, we may conclude that his authority was fcarcely recogsifed within the largeft portion of his kingdom.

Edgar was fucceeded by his brother Alexander I. furnamed the Fierce from the impetuofity of his temper. On his acceffion to the throne, however, the Scots were fo ignorant of his true character, on account of his appearance of piety and devotion, that the northern parts of the kingdom were foon filled with ravages and bloodfled, by reafon of the wars of the chieftains with each other. Alexander immediately raifed an army, and marching into Moray and Rofs-hhire, attacked the in-
groaned. A remarkable inflance of this appeared on his return from the expedition juft now mentioned. In paffing through the Mearns, he met with a widors, who complained that her hufband and fon had been put to death by the young earl their fuperior. Alexander immediately alighted from his horfe, and fwore that he would not remount him till he had inquired into the juftice of the complaint ; and, finding it to be true, the offender was hanged on the fpot. 'Thefe vigorous proceedings prevented all attempts at open rebellion; but produced many confpiracies among the protligate part of his private fubjects, who had been accuttomed to live under a more remifs government. The moft remarkable Narow; of thefe took place while the king was engaged in build-eliapes ing the caftle of Baledgar, fo called in memory of his allaftirs. brother Edgar, who had laid the foundation ftone. It was fituated in the Carfe of Gowrie, which, we are told, had formerly belonged to Donald Bane, but afterwards came to the crown, either by donation or forfeiture. The confpirators bribed one of the king's chamberlains to introduce them at night into the royal bed-chamber : but Alexander, alarmed at the noife, drew his fword, and killed fix of them; after which, by the help of a knight named Alexander Carron, he efcaped the danger, by flying into Fife. The confpirators chiefly refided in the Mearns, to which Alexander once more repaired at the head of an army; but the rebels retreated northwards, and croffed the Spey. The king purfued them acrofs that river, defeated them, and bronght to juftice all that fell into his hands. In this battle, Carron diftinguifhed himfelf fo eminently, that be obtained the name of Skringeour or Skrimzsour ; which indeed is no other than the Englifh word feirmifber or fighter.

The next remarkable tranfaction of Alexander's reign, His exploles as recerded by the Englifh hiftorians, was his journey in Englane. into England, where he paid a vifit to Ifenry I. whon he found engaged in a war with the Welih. Alexander, in virtue of the fealty which he had fwom for his Englifh poffeffions, readily agreed to lead an army into Wrales. There he defeated one of the chieftains, and reduced him to great flraits ; but could not prevent him from efcaping to Griffith prince of North Wales, with whom he was clofely allied. Henry alfo marched againf the enemy, but with much worfe fuccels than Alexander. Alexander died in 1124 , after a reign of feventeen years; and was buried at Dunfermline.

This prince, dying a bachelor, was fucceeded by his Wars of younger brother David; who interfered in the affairs King Daof England, and took part with the emprefs Maud in vid with the civil war which fhe carried on with Stephen. In An. 1124. ${ }_{11}$ 36, David met his antagonift at Durham ; but as neither party chofe to hazard an engagement, a negociation took place, and a treaty was concluded. 'This, however, was obferved but for a fhort time; for, in the following year, David again invaded England, on fome frivolous pretence. He defeated Stephen at Roxburgh ; and forced him to retreat precipitately, after lofing one half of his army. Next year he renewed his invalion; and, though he himfelf was a man of great mildnefs and humanity, he fuffered his troops to corrmit fuch outrages, as firmly united the Englifh in oppofition to lim. His grand-nephew. William cut in pieces the vanguard of the Englifh army at Clithero; after which he ravaged the country with fuch cruelty, that the inhabitants became exafperated beyond meafure again!t him. New

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Sootland affociations were entered into againft the Scots; and the Englifh atmy receiving great rcinforcements from the fouthward, advanced to Northallerton, where the

Battle of the Standard.
A.a. 1138. famous ftandard was produced. The body of this flandard was a kind of box which moved upon wheels, from which alole the matt of a thip furmounted by a filver crofs, and round it were bung the banners of St Peter, St John de Beverly, and St Wilfred. Standards of this hind were common at that time on the continent of Europe ; and fo great confidence had the Englifh in this flandard, that they now thought themfelves invincible. They had, however, a much more folid ground of confidence, as being much better armed than their antagonifts. The armies met at a place called Culton MIoor. The fint line of the Scots arny was compofed of the inhabitants of Gilloway, Carric, Kyle, Cunningharı, and Renfrew: The fecond line confifted of the Lothian men, by which we sre to undertand the king's fubjects in England as well as the fouth of Scotland, together with the Englift and Normans of Maud's party. The third line was formed of the clans under their different chieftains; but who were fubject to no regular command, and were always impatient to return to their own country when they had acquired any booty. The Englith foldiers having ranged themielves round their ftandard, difmounted from their horfes, in order to avoid the long lances which the firf line of the Scots army carried. Their front-line was intermixed with archers; and a body of cavalry, ready for purfuit, hovered at fome ditance. The Scots, befides their lances, made ufe of targets; but, when the Englifh clofed with them, they were foon difordered and driven back upon the centre, where David commanded in perfon. His fon made a gallant refiftance, but wa* at laft forced to yield: the laft line feems never to have been engaged. David, fecing the victory decided againtt him, ordered fome of his men to fave themfelves by throwing away their badges, which it feems Maud's party had worn, and mingling The Scots with the Englith; after which he himfelf, with his
entirely defeated.

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An. 1153. fhattered forces, retreated towards Carlifle. The Englifh hiltorians fay, that in this battle the Scots were totally defeated, with the lofs of 10,000 men; but this Sems not to be the cafe, as the Englifh did not purfue, and the Scots were in a condition for carrying on the war next year. However, there were now no great exploits performed on either fide ; and a peace was concluded, by which Henry prince of Scotland was put in poffeffion of Huntingdon and Northumberland, and took an oath of fealty to Stephen. David continued faithful to his niece the emprefs as long as he lived; and died at Carlifle in the year 1153, after a glorious reign of rather more than 29 years.

David was fucceeded by his grandfon Malcolm IV. furnamed the Maiden, on account of his continence. He appears to have been a weak and fuperftitious prince, and died of a depreffion of fpirits in the year 1165 : He was fucceeded by his brother William I. who immediately entered irto a war with Henry II. of England, on account of the earldom of Northumberland, which had been given up by Malcolm; but Henry, finding his affairs in a very embarraffed fituation, confented to yield up this county, on William's paying him homage, rather than continue the miferies of war. In 1172 , he attempted to avail himfelf of the unnatural war which Henry's fons carried on againd their father,
and invaded England. He divided his army into three Scotland. columns: the firft of which laid fiege to Carlille; the fecond the hing in ferfon led into Nurthumberland; and the king's brother, David, advanced with the third into Leicelterfhise. William reduced the calles of Burgh, Appleby, Warkworth, and Garby ; and then joined that divifion of his army which was befieging Carlile. The place was already reduced to fuch itraits, that the governor had agreed to furrender it by a certain day, provided it was not relicved before that time : on which the king, leaving fome troops to continue the fiege, invefted a caltle with fome of the forces he had under his command, at the fame time fending a ftrong reinforecment to his brother David; by which means he himfelf was left with a very froall army, when he received intelligence that a Arong body of Englifh under Robert de Stuteville and his fon were advancing to furprile him.-William, Cenfible of his inability to refift them, retired to Alnwick, to which he inftantly laid fiege; but in the mean time anted in fuch a carelefs and unthinking manner, that his enemies actually effected their deligus. Having drelled a party of their foldiers in Scots habits, they took the king himfelf prifoner, and carried him, with his feet tied under the belly of a horfe, to Richmond Caftle. He was then He is ${ }^{96}$ conveyed in claains before Henry to Northampton, and prioner liy ordered to be tranforted to the caflle of Fakile in the Enghth, Normandy, where he was thut up with other Itate pri- and oblifoners. Soon after this an accommodation took place hed to do
between Henry and his fons, and the prifoners on both has kingbetween Henry and his fons, and the prifoners on both haskingfides were fet at liberty, William only excepted, whodum. bore his confinement with great impatience. Of this Henry took the advantage, to make him pay homage for the whole kingdom of Scotland, and acknowledge that he held it only as a feu of the crown of England; and, as a fecurity, he was obliged to deliver into the hands of Henry all the principal forts in Scotland, viz. the cafles of Roxburgh, Perwick, Jedburgh, Edinburgh, and Stirling ; William at the fame time agreeing to pay the Engliih garrifons which were put into thefe caftles. David, the king's brother, with 20 barons, who were prefent at the figning of this ftameful convention, were put into the hands of Henry as hollages for William's good faith; after which the king was fet at liberty, and returned to Scotland.

The affairs of Scotland were now in the greateft confufion. The people of Galloway, at the head of whom were two ehiefs called Othred and Gilbert, had taken the opportunity of afferting their independency on the crown of Scotland ; and, having expelled all the Scots officers out of the country, they demolihed all the forts which William had erected in their country, and put to death all the foreigners. But in the mean time a quarrel enfuing between the two chiefs, Othred was murdered by Gilbert, who immediately applied to Henry for protection.

Henry, in order to give all poffible fanction to the convention betwixt him and William, fummoned him to meet him and his fon at York. William obered the fummons, and along with him appeared all the great nobility and landholders; who confirmed the convention of Falaife, fwore fealty to Henry, and put themfelves and their country under his protection. In the mean time, Gilhert, who was at the head o: the tehels in Galloway, had offered to place himfelf and his perple the king reftored him to his former honours and eftates. From the family of this Gilchrift that of the Ogilvies is faid to be defcended.

The Scots continued to be in fubjection to the Eng. lifh till the acceffion of Richard I. This monarch being a man of romantic valour, zealoufly undertook an expedition into the Holy Land againft the Turks, in conformity with the fuperftition of the times. That he might fecure the quiet of his dominions in his abfence, he determined to make the king of Scotland his friend; and for this purpofe, he thought nothing could be more acceptable than releafing him and his fubjects from that as forced and unjuft. However, he determined not to lofe this opportunity of fupplying himfelf with a fum of money, which could not but be abfolutely neceflary
under the protection of the king of England, and to pay to Henry 2000 merks of filver yearly, with 500 cows and as many hogs, by way of tribute: Henry, however, that he might oblige his new feudatory William, refufed to have any concern in the affair. On this, William ordered his general Gilchrift to march againft him ; which he did with fuch fuccefs, that Gilbert was entirely defeated, and Galloway again reduced under the dominion of Scotland. Very foon after this victory, Gilchrift fell under the king's difpleafure on the following occafion. He had married Matilda, fitter to William; and on fufpicion, or proof, of her incontinence, put her to death at a village called Maynes, near Dundee. The king being highly difpleafed at fuch a grofs affront to himfelf, fummoned Gilchrift to take his trial for the murder : but as the general did not choofe to make his appearance, his eftates were confifcated, his caftles demolifhed, and he himfelf fent into exile. He took refuge in England; but as it had been agreed in the convention between William and Henry that the one thould not harbour the traitorous fubjects of the other, Gilchrift was forced to return to Scotland with his two fons. There they were expofed to all the miferies of indigence, and the perpetual fear of being difcovered, fo that they were obliged to fkulk from place to place. William, on his return from an expedition againft an ufurper whom he had defeated, happened to ubferve three ftrangers, who, though difguifed like ruftics, appeared by their noble mien to be above the vulgar rank. William, who firft difcovered them, was confirmed in this apprehenfion, by feeing them frike out of the high road, and endeavour to avoid notice. He ordered them to be feized and brought before him. The oldeft, who was Gilchrift himfelf, fell upon his knees before him, and gave fuch a detail of his misfortunes as drew tears from the eyes of all prefent ; and in fuch an expenfive and dangerous undertaking. He therefore made William pity him 10,000 merks for this releafe: after which he entered into a convention ftill extant; in which he acknowledges, that "all the conventions and acts of fubmifion from William to the crown of England had been extorted from him by unprecedented writings and durefle." 'This tranfaction happened in the year 1189 .

The generofity of Richard met with a grateful return from William; for when Richard was imprifoncd by the emperor of Germany in his return from the Holy Land, the king of Scotland fent an army to affift the regency againit his rebellious brother John, who had wickedly
ufurped the throne of England. For this Richard ac- Szotland. knowledged his obligation in the highelt degree; but William afterwards made this an excufe for fuch high demands as could not be complied with. Neverthelels, the two monarchs contimed in friendfhip as long as Richard lived. Some diflerences happened with King John about the poffeffion of Northumberland and other northern counties: but thefe were all finally adjufted to the mutual fatisfaction of both parties; and Wiliiati continued a faitinful ally of the Englifh monarch till his death, which happened in the year 1214 , afier a reign of 49 years.

William was fucceeded by his fon Alexander II. a Alexanyouth of 16 . He renewed his claim to Northumber- der II. land and the other northern counties of England; but ${ }^{\text {fin. } 1214 .}$ John, fuppofing that he had now thoroughly fubdued the Engliih, not only refufed to confider the demands of Alexander, but made preparations for invading Scotland. John had given all the country between Scotland and the river Tees to Hugh de Baliol and another nobleman, upon condition of their defending it againft the ror Scots. Alexander invaded Northumberland, which he John, king eafily reduced, while Iohn invaded Scotland. Alexan- of lingland. der retired to Melros, in order to defend his own country; upon which John burnt the towns of Wark, Alnwick, and Morpeth, and took the ftrong caftles of Roxburgh and Berwick. He next plundered the abbey of Coldingham, reduced Dunbar and Haddington, ravaging the country as he paffed along. His next operation was directed againft Edinburgh ; but being oppofed by Alexander at the head of an army, he precipitately retreated. Alexander did not fail to purfue; and John, to cover his retreat, burnt the towns of Berwick and Coldingham. In this retreat the king of England himfelf fet his men an example of barbarity, by fetting fire every morning to the houfe in which he had lodged the preceding night. In fhort, fuch defolation did John fpread all around him, that Alexander found it impoffible to continue his purfuit ; for which reafon he marched weltward, and invaded England by the way of Carlifle. This place he took and fortified ; after which he marched fouth as far as Richmond, receiving homage from all the great barons as he paffed. At Richmond he was again ftopped by John's ravages, and obliged to return through Weftmoreland to his own dominions.

When the Englifh barons found it neceflary to put themfelves under the protection of Louis, fon to the king of France, this prince, among other acts of fovereignty, fummoned Alexander to do him homage; but the latter being then engaged in the fiege of Carlifle, which had fallen into the hands of King John, he could not immediately attend. In a fhort time Alexander found himfelf obliged to abandon his enterprife: after which he laid fiege to Barnard caftle; but being baffled here alfo, marched fouthwards through the whole kingdom of England, and met Louis at London or Dover, where the prince confirmed to him the rights to Northumberland, Cumberland, and Weftmoreland. He continued a faithful ally to Louis and the barons in their wars with John; and, in 1216 , brought a freflı army to their affifance, when their affairs were almoft defperate.

As long as Louis continued in England, Alexander proved faithful to his intereft; but, in 1217 , he was on
$\underbrace{\text { Scot? }}$ ad. fuch good terms with Henry as to ciemithd his cldeft filter, the princel's loan, in marriage. His requeft was granted, and in 1221 he efpouleu that princels. As long as the queen of Scotland lived, a perfect harmony fibisted between the Scots and Engil $h_{2}$ : but in 1239 Queen Joan died without children ; and Alexander foon after maried Mary, the daughter of Egelrand de Coucy, a young and beautiful French lady, by whom, in 124 x , he had a fon named Alexande:. From this time a coolnefs took place between the two courts, and many differences arofe ; but no hoftilities commenced on either fide during the lifetime of Alexander, who died in 1249 in the $35^{\text {th }}$ year of his reign.
Alesander Imanediately on the death of his father, Alexander III. took poffeffion of the throne. He is the firlt of the Scots kings of whole coronation we have any particular account. We are told, that the ceremony was performed by the bithop of St Andrew's, who girded the king with a military belt, probably as an emblem of his temporal jurildiction. He then explained in Latin, and afterwards in Gaelic, the law's and oaths relating to the king; who received them all with great appearance of joy, as he allo did the benediction and ceremony of coronation from the fame prelate. After the ceremony was performed, a Highlander, probably one of thofe who went under the denomination of Sannachies, repeated on his knees before the throne, in his own language, the genealugy of Alcxander and his ancellors, up to the firft king of Scotland.
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marrics the marich i250, the king, though no miore tian ten years laughter of of age, was married to the daughter of Henry, who Heny IIL. now thought it a proper opportunity to oblige him to of Engiand do homage tor the wholc kingdom of Scotiand. But Alexander, notwithftanding his youth, replied with great. ferfe and modefty, that his butinets in England was matrimuny; that he had come thither under Henry's protection and invitation; and that he was not prepared to a:ifser fuch a difficult queltion.

Hensy leems to have been encouraged to this attempt by the dillracted tlate of the Scots affiurs at that time; for, during the minority of the king, the uobility threw all into confumon by heir mutual difenfons. The family ot Cwman were now become exceedingly powerful; and Alevander II, is blamed by Buchanan for alJowing them to ottain fuch an exorbitant degree of power, by which they were enabled almolt to thake the foundz!ion of government. Notwithftanding the kins's refulal to futsmit to the homage required of him, they immined that Henry's influence was now too great; and Erating bad confequences to themfelves, they withdress from I ,rik, leaving Henry in full poff finon of his lon-in-law's perfon. Henry, however, to thow that he defreed all the confidetice which could be repofed in lim, puilicly declared, thit he dropped all claim of fupeivrity over the crown of joolland, and that he would eter afterwards act as the fatlic: and guardian of his fon-in-law; confiri, j. g his afiar nee by a chorter. Ict when Alexander returned to S. land, he found there had been a frong pre y mad a amft his Eugiin con- nections. They $n$ si evcldined that 7 uland was no beller tho a a oines of I bland; in f a inys sained almof all the nus.....y osc; to \& ir fill., th y he ' $i$
 Edint argh. ! Tomer had ier-et intelnurace of tliele foo. ceedingt and hisque 1 privas iy feat a plys wian whom

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the could truf, to inquire into her daugh er's fo ...tor Having found means of being admitted into the juh of queen's prefence, the gave him a mon l. metalita a count of he: fituation. She faid, thot the 1 ace ot 1 . . i confinement was very unwholelume, in coniequen : of which their health was in imminent dange: ; and thes they had no concern in the affans of government. IHftorians do not inform us bhat ime, is they there redaced to this aimal futuation; on'y in geveral, that the Cummins ufurped the whole power of the flate. Henry fcarcely kuew how so act. If he proceeded it once to violent meafures, he was afraid of the lives of his daughter and fon-in-law; and, on the other hand, by a more cautious conduct, he left them expofed to the wicked attempts of thofe who kept them in thraldom, fome of whom, he well knew, had defigns on the crown itfelf. By advice of the Scots royalitts, among whom were the They art: $t$ earls of Dunbar, Fife, Stratherne, Carrick, and Robert at liberty de Bruce, Henry affembled his military tenants at York, by tienrr whence lie himfelf advanced to Newcaftle, where he publithed a manifefto, difclaiming all defigns againt the peace or independence of Scotland; declaring, Uat the forces which had been collected at York were defigned to maintain both ; and that all he intended was to have an interview with the king and queen upon the burders. From Newcaitle he proceeded to Wark, whers he privately difpatched the earl of Gloccfter, with his favourite John Mainfel, asd a train of trufty followers, to gain admiflion into the cafle of Edinburgh, then held by John Baliol and Robert de Rofs, noblemen of greas intluence both in England and Scotlanu. The earl and Manfe! gained admittance into the caftle in difguife, on pretence of their being tenants to Baliol and Rofs; and their followers obtained accels on the fame account, without any lufpiation, till they were fufficiently nurerous to have maftered the garrifon, had they met with any reffltance. The queen imnsediateiv intormed there of the thraldom and tyranny in which the had been kept. The Englifh, being mallers of the caftie, ordered a bel to be prepared that very mint for the king and gueen; and Henry, hearing of the fuccel's of his party, fent a fafe conduct for the royal pair to mieet him at Alnwick. Robert de Rols was fummoned by Henry to anfiser for his conduct ; but throwing himfelf on the knes's mercy, he was punifhed only by the fequeftration of his eftate, as was John Baliol by a heavy fine, which the king of England referved entirely for his own ufe.

Alexander and his queen were attended to Alnwick by the heads of their party; and when they arrived, it wiss agreed that Heury foould act as his fon-in-lan"s guardian; in confequence of which, feveral regulations were made in order to fup orels the exorbitant p-wer of the C nmmis. 'Tlat ambitis family, however, were all this time privately flrengthening their farty in scotland, though they appeared latisficd with the an ange- on ments which had been made. This re idered - lexan-t; rear' der fecure ; fo that, being off his gurird, he was lur- :itt.. prifed when aileep in the ctltic of Kinrols by the carl of Me, eith, who carried him to stirling. The Cummins vere fined it lis ir alun by Sir Hugh de Aberneting, Sir Did Tachnin. .ad Si- Hugh de Barclay ; ...d, it the -t tirl, he whole nation wis throst into tue us moll cunfufu.s. The ure $t$ feal $w$, s forcilut : ben from liubert \&.utavilic, libulitue to the chancellor the 4 G
bilthor

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s A.:.d huop of D:akeld; the efates of the royaliats were plandered; and even the churches were not fipared. 'the king at left was devitered by the death of the earl - Minneith.
$\because!$ vazicu being thus reflored to the exercife of regal athority, acted with great wiflom and moderation. He pardoncd the Cumblins anld their adherents, upon not: Cubmituing to his authority ; after which, be apa. ad hingelf to the resulation of his other affairs : but a form wes no.: ready to break tupion him from another garic:. We have already fect, thet the ufurper Doma'd Eane, brother to Matcom Canmore, had engaged to deliver up the ilfes of Otk ney and Shetland to the king of Norway. for affiling him in making good his pretenfons to f.e crewn of Scotland. Haco, the king of Norway at this time, alieyed, that thefe engagements extended to the delivering up the iflands of Bute, Arram, and others in the firth of Clyde, as belonging to the Ebudæ or Weiern illes; and as Alexander did not think proper to comply with thefe demand, the Norwegian monarch appeared with a fleet of 160 fail, having on toard $20,=50$ troops, who landed and took the caßle of Ayr. Alexander immediately difpatched ambaffadors to enter into a treaty with Haco; but the hatter, flufhed with fuccefs, would liften to no terms. He made himfelf mafter of the ifles of Bute and Arran; after which he palTed over to Cunningham. Alexander ptepared to eppofe hins, divided his army into three bocies. The firt was commanded by Alexander high ficward of Scotland (the great grandfather of Roberi. II.), and confifted of the Argyle, Athol, Lenox, and Gailoway men. The fecond was compored of the inhabitants of Lothian, Fife, Merfe, Bcrwick, and Stirling, under the command of Patick tarl of Dunbar. The king himfelf led the centre, which confified of the inhabitants of Perth-hise, Angus, Mearns, and the northern counlies.-Haco, who was an excellent gene-
the daughter of Alcxander, and Eric the fon and lieit salisiz. of Miognus, who was allo a child; and, fome years af. ter, wisen the parties were of proper age, the marriage was confummated.

In 126. Alexatider fent a confiderable body of Scot. Alexander tifl foress under the command of John Cummin, John. Witts the Paliol, and Robert Bruce, to aftir the king of Eng-kirg of latid againift his rebellious barons. Thefe leaders weie Engtand. tiken prifoners in the battle of Lewic, where Henry was defeated, but regained their liberty in the following year at the decifive battle of Eveflani, by which the Englifh civil war was fuccefsfully terminated on the part of Henry by the ycung Prince Edward.

From this time to the acceltion of Edward I. of England, we find nothing temarkable in the hiffory of Seotland. 'That prince, bowever, proved a more crut enemy to this country than it had ever experierced. Alexander was prefent at the coronation of Edward, who was then newly arrived from the Holy Land, wheie he had been on a crufade. Soon after this Alexander paid him homage for his Englith eflates; particularly for the lands and lordhip of Penrith and others, which Henry had siven himalong with his daughter. He proved an excellent ally to Edward in his wars againft the French; and the latter paficu a charter, by which he acknowletged that the fervices of the king of Scotland in thofe wars were not in confequence of his holding lands in England, but os an ally to lis crown. Even at this time, however, I,duard had formed a defign on the liberties of that hinglom; for in the charter juft mentioned, he inferted a filvo, acknowledging the fu- Defors periority, by which he referved his right to thie homage Edienard of $I$. of the kingdom of Scotland, when it fiould be clamed ag uint the by hiir. or his heirs. The bifhop of Now wich fuggefted litherties of this falvo: and this was the reafon wliy Alcxander scotand. would not ferform the homege in perfon, tut left it to he performed by Robert Bruce earl cf Carrick; Alexander ftanding by, and exprefsly declaring, that it was only paid for the lands he leeld in Enggland.-No acts of hoftility, however, took ylace during the lifetime of Alexander, who was killed on the Isth of March I 285 , in the 45 th year of his age, by his horfe rufling down the black rock near Kingliorn as he was ridins.

Both lefore and after the death of Alexander, the An. 1285 great fubjects uf Erotland feemed to have been fenfible of Edvard" ambitious defurns. On the marriage of Acrefion of Margarct with Eric prince of Nomway, the flates of Margarez. Scotland paffed an aet cbliging themfelves to reccive her and her heirs as queen ard fovercigus of Scotiand. Edward at llat time was in no condition to oprofe this meafurc, in which the Scots were unanimous; and thercfore contented himfelf with forming factirns among the leading men of the coantry. Under pretence of refuming the crofs, he renewed his intrigucs at the court of Rome, and demaided leave from the pore to colluct the tentlas in Scotland; but his holinefs replied, that he cos'd make no fuch grant without the confent of the go. vernment of Scotland. On the death of Margaret riticen of Norvay, her danighter, in confequence of the aft above meationed, was recognized by the flates as queen of Scotland. As the was then but two yeurs old, they came to a refolution of excluding from all thave in the government, not only Edward I. but their queen's father; and they accordingly eflablilied a regency from among

Seatiac. amons their own number, confiling of the fix following noblemen ; viz. Robert TWilhart billop of Glafyow, Sir James Cummin of Radnceth, fenior, James Iord hegh fleward of Scotian:d, who were to have the faperintendeucy of all that part of Scotland which lay to the fouth of the Forth; William Frater billiop of St Andrews, Duncan Milduff earl of Fife, and Aleander Cuumin earl of Buchan, who were to have the direction of ail affaiss to the anoth of the fane siver.-With thefe arrangerments Eric was exceedingly difpleafed, confidering himfelf as the only pighetul guardizn of his own chiid. He therefore cultivated a good underflanting with Edward, from whom he had received conliderable pecumiary favours; sad perceiving thet the flates of Scotland were uranimous in excluding all foreigners from the manvement of their aff irs, he cmbraced the views of the king of England, and named commiltioners to treat with thufe of Edward upon the Scots attairs. Thefe negociations terminated in a treaty of marsiane between the queen of Scutand and Fidward prince of Wales, young as they both were. This alan med the flates of Sootland, who refolved not to fuffer tocir queen to be dipofed of without their confent. It was therefore agreed by the commifioners on both fides, to acquaint then with the sefult of their conferences, and to demand that a deputation frould be fent to Laniton for Settling the regency of Scotiond, or, in other worde, for puting the fovereign power into the hands of the two kings. As the tiwo partiec, !lowever, were within the prohibited degrees of confanguinity, bei: y firlt coufns, a difpenfation wae applied for to Pope Boniface, who granted it on condition that the peers of Scolland confented to the match.

Though the Scots nobility were very inimical to this match, they could not refuic thicir confent to it when propofed by the father and grand-uncle of their young queen. They therefore appeinted the bthops of St Andrew's an: Gil. fgow, with Robert Bruce lord of Amandale, and John Cummin, to attend as their deputies, but with a charge to preferve all the liverties and honours of the realn of Scotland; to which Edward agreed. Thefe deputics met at Salifbuiy with thofe of England and Nurway; and it was at latt agreed, 1. That the young queen thould be fent from Norway (free of :.ll marriage-engagements) into England or Scotland. 2 . That if the queen came to England, fhe fhouid be at [iberty to repair to Scotland as ioon as the dilfrations of that kingdom flould be fetled : that fhe finuld, on her arrival in her own dominions, be free of all matrimuaitl contradts; but that the Scots fhould engage not to dif. pofe of her in marriage without her Gather or Edward"s confent. 3. The Scots deputies promited to give fuch fecurity :s the Norwegion commiffioners inisht require, that the tranquility of the aation fhould be fel:led before her arrival. 4. That the commifioners of Scotland and Norway, joined with cornmilioners from England, thould remove fuch regents and officers of ftate in Scotland, as might be fuppeted of diaffestion, and place otbers in their fleat. If the Scots and Norwegian commiffioners fhould difagree on that or any other head relating to the fovernment of Scotland, the decifion tras to be leit to the arbitration of Englifh commilfioners.

Tbe party of Edward was now fo flrong in Scotiand, that no oppufition was made to the late agrecerent, in a
parliament held at Brechin to deliberate uper ti.e fettlc. ment of the kingdom. It is uncertain whether the communicated in form to the Scotrith parliament the pope"s dilipentation for the marniage : but mult probably lee did not; as, in a letter written to lim by the thates of Scotland, this mention this as a matter they heard by re port. On tha whole, however, they highly approved of the marriage, upon certain conditions to which Edward was previcufly to agrce; but the latter, without waiting to pefform any conditions, inmediately lent for the young gacen from Norway. This exceedingly difplealed Etric, who was by no means inclined to put his daughter into the hands of a prince vilofe fincesity lee fulpected, and therefore delayed the departure of the young queen till he floold hear farther from Scotland. E.lward, alarmed at this, had again recourle to negociation; and ton articles were at laft draun up, in which the Scots took all imaginable precautions for the fafety and independence of their country. Jhefe articles were matifed by Eluaid on the 28 h of Auguit 1289 ; yet, Ao. 1289. even after the marriage was fully fettled, lac lolt no time in jrocuring as firong a party as polit de. At the liead of thefe were the archithop of St Andrew's and John Euliol. That prelate, while he was in Ingland, was highly carefled by Edward, from shom he liad great expectations of preferment; and Boliob, having great efates in England, confiuered Edward as his fovereign. The bithop, on his return to tontland, acted as a tpy for Edward, and carried on wit' him a feret curreipundence, informing him of all rublic tranf.Eions. It appears from this correfiondence, that the Scow were fir from being unanimous as to the marniage. Brace earl of Annandale fufficied, for fome renfon o: other, thet the young queen was dead; and, foon after Michaelmas 1290, affembled a body of forces, and was juined by the earls of Mar and Athol. Inteiligence ot theie commotions uas carried to Edward by Raliol; and the archbithop of St Andrew's advifd Edward, if the report of the queen's death ihould prove true, to match a body of troops tornards Scotland, in order to fecurc fuch a fuccelior as he might think proper.

Edward, in the mean tinac, confensed to allow ambafialors to be fent from Scotiand to bing over the young queen, previous to whicl, te appointed the bithop of Durham to be lieatenant in Scotland for the queen and her future huband; and all the officers there, both civil and military, obliged themfelves to limender their employments and fortelfs to the king and queen (that is, to Edward) immediately on their arrival in Scotiand. But while the moft magnifizent prepatations were making for the wceptiun of the quect, intelligence of her death was reccived ; but it is not, cer : inly lizown Death of whether this event happened before the arrival of the the queer ambafidurs in :7.eway, or after her departure from that An. 12y玉. country, probably the latter.

The Scots were thrown into the almof conftema. tion by the news of the queen's death; while, on tue other hand. Edward was as we!l pecpared as if he had known wiat was to liappen. The tate of Scotand at this time, indeed, wass to the laft degree deplurable. The act of fuccetlion, eltablitied by the late king, had of numbe. no furtier operation, being deternined by the death of tors for the the queen ; and fince the crown was herceditary, therecrown. was no precedent by which it sould befettlod. The Scots, in general, however, turned their cyes on 4 G 2
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s:otiand. the pofterity of David earl of Huntiagdu.., brother to the two kings Malcolm the Maiden and his fucceffor William, both of whom died without lawful illue. The earl had three daughters. Margaret, the eldeft, was married to Allan luid of Gallosay ; the only ilue of which marriage was Derverguill wife to John Baliol, who had a fon of the fame name, a competitor for the crown. The fecond daughter, Ifabellia, was married to Robert Bruce; and thir fon Robert was likervile a candidate. The third daughter, Ada, had been married to Henry Haltings, an Englih nobleman, and predeceflor to the preient earl of Huntingion. John Haltings, the fon of this marriage, was a third competitor; but as his claim was confefledly the worft of the three, he put in only for a third of the kingdom, on the principle that his mother was joint-heir with her two fithers (c). Several other claimants now Ilarted up. Florence earl of Holland preterded to the crown of Scotland in right of his great grandmother Ada, the eldert lawful fifter of William, formerly king; as did Robert de Pynkeny, in the right of his great-grandmother Margery, fecond fitter of the fame King William. Patrick Gallightly was the fon of Henry Gallightly, a baitard of William; William de Rofs was defcended of I label; Patrick earl of March, of Ilda or Ada; and William de Velci, of Margery; all three natural daughters of King William. Roger de Mandeville, defcended from Aufrie, anorher natural daughter of William, alfo put in his claim ; but the right of Nicolas de Soulis, if baitardy could give a right, was better than thofe of the iormer. His grandmother Maryery, the wife of Allan le Huifier, was a natural daughter of Alexander II. and confequently fiffer to Alexander III. John Cummin lord of Badenoch derived his claim from a more remote fource, viz. Donald Bane, who ufurped the crown about 200 years before this time; but he was willing to refign his preterfions in favour of John Baliol. The laft indeed had the beft right ; and, had the fucceffion been regulated as it is in all hereditary kingdoms at this day, he would undoubtedly have fucceeded. Bruce and Haftings, however, pleaded that they were preferable, not only to John Baliol the grandchild of Margaret, but alfo to Derver-
guill her daugh:er and his mother, for the following Scotlani? re.fon. Derverguill and they were equally related to their grandfacher Larl D. wid: she was indoed the daughter of his eldeit daughter ; but ihe was a woman, they were men; and, faid they, the male in the fo we degree ought to ficieed to forereigntics, in their own nature impartible, preferable to the temale.

Notwithtanding this number of candid ecs, however, it was loon perceived, that the clain. of a!! might be cut off excepting thofe of two, viz. Baliot and Bruce, of whom the former had the preference with refpect to hereditary right, and the litter as to popularity. Baliol had frongly attached himelf to Edward's party ; and this being by far the molt powerful in Scotland, gave him a decided fuperiority over Bruce. The event was, that Edward was appointed to decide betwec: the two compctitors. It foon appeared, however, that Edward had no intention of adjud, ing the crown to any perfon but himfelf; for, in an alfenaby held at Norhain on the 10th of May 1291, Brabai zon the chict funtice of England informed the menbers, "That his mafter was come thither in confideration of the flate of the realm of Scotland, which was then without a king, to meet them, as diree? foverign of that kingdom, to do jellice to the claimants of his crown, and to eftablifh a folid tranquillity among his people ; that it was not his inten- reign of tion to retard juffice, nor to ufurp the right of any one, Scollard. or to infringe the liberties of the kingdom of Scotland, but to render to every one his due. And to the end this might be done with the more eafe, he required the affent of the flates ex abundante, and that they fhould own him as direct fovereign of the kingdom; offering, on that condition, to make ufe of their counfels to do what jultice demanded." The deputies were aftonifhed at this declaration, and replied, that they were by no means prepared to decide on Edward's claim of fuperiority; but that Edward ought previoully to judge the caufe between the two competitors, and require homage from him whom he fhould choofe to be King. Edward treated this excufe as trifling, and gave them till next day to confider of his demand. Accordingly, on that day, the affembly was held in Norham church, where the deputies from Scotland infifted upon giving no an-
(c) The pedigree of the three principal competitors will be fully underfood from the following fcheme.


## $\mathrm{S} \mathrm{C} O \quad[60 ;] \quad \mathrm{S} C \mathrm{O}$

s-tim? firet to Edu all demands, which cuuld be decided tily by the at le community; rapreienting, at the fame time, that numbers of the nobiemen and prelates ware asfent, and that they muft have time to know their fenfe of the affair. In confequence of this, Edward give them a delay of three weeks; which interval be employed in multiplying claimants to the crown of Scotland, and in flattering all with hopes, if they would acknowledge his fuperiority. But when the alfembly met, according to appointment, on the 2 d of June following, they found the place of meeting forrounded by a numerous army of Engliib. Edward had employed the bihop of Durham tadraw up the hiłorical evidence of his right to the crown of Scotland; which has fince been publifhed. In this paper mention is made of the fealty and homage performed by the kings of Scotland to the Anglo-Saxon kings of Eugland; but no fufficient evidence is brought of any fuch homage being actually performed. As to the homage paid by the kings of Scotland from the time of William the Conqueror to that of the difpute between Bruce aad Baliol, the Scots never denied it; but they contended, and indeed with juftice, that it was paid for the lands which they held from the crown of England ; and they alleged, that it was as far removed from any relation to a fealty or homage performed for the crown of Scotland, as the homage paid by the Englifh monarchs to the crown of France was re:noved from all relation to the crown of England. With regard to the homage paid by William king of Scotland to Henry II. of England, it was not denied that he performed it for the whole kingdom of Scotland: but they pleaded, that it was void of itfelf, becaufe it was extorted when William was a prifoner to Henry; and they produced Richard I.'s charters, which pronounced it to have been compulfive and iniquitous.

But, however urgent thefe reafons of the Scots might be, Edward was by no means difpofed to examine into their merits. Inftead of this, he clofeted the feveral pretenders to the crown; and having found them all realy to comply with his mealures, he drew up the following charter of recognition to be figned by them all.
"To all who fhall hear this prefent letter.
The candi- "Wre Florence earl of Holland, Fobert de Bruce dates fign an affert
A2. 1291 .
Haftings lord of Abergavenny, John Cummin lord of Badenoch, Patrick de Dunbar earl of March, John Vefci for lis father Nicholas Soulis, and William de Rofs, greeting in the Lord :
"Whereas we intend to purfue our right to the kingdom of Sco:land; and to declare, challenge, and aver the farse before him that hath moft power, juriddiction, and reafon to try ir; and the noble prince Edward, by the grace of God king of England, \&c. having informed us, by good and fufficient reafons, that to him belongs the fovereign feizniory of the fame: We theefore promile, that we will ho'd firm and Ha le his at ; a d t at we flall elfoy the realm to whom it fholl be adiudend befor him. In witn whereof, we $\mathrm{h}=\mathrm{fe}$ or fe : t, this writin made and granted at $N$ h:m. the line day fer the $N$ cenfion, in the year of $G$ ver I 2 g1."

El uri $\because$ docleref, by the mouth of lis chanc. 11 r, the alhoush, in the difpute which had ariten
between the feveral claimants, touching tive fuce fliun sotharto the kingd um of Scathand, he acted in yu lity of tovereign, in order to render juttice to whomfuever it was due; yet he did not thereby mean to exclude himicle from the heredit-ry rigit which in his own perfon he might have to that crown, and which right he intended to affiert and improve when be flould think proper : and the king himielf repeated this protellation in french. "The candidates were then feveraily called upon by the Englith chancellor, to declare whether they were willing to acknowledge Edward chain ot fuperiority over the crown of Scoiland, and to tubmit to his award in difipoling of the fame; which being anfiwcred in the affirmative, they were then adritted to prove their rights. But this was mere matter of form ; for all the force of England was then afferabled on the borders in order to fupport the claims of Edward, and nothing now remained but to furnith him with a futlicient pretext for making ufe of it. He obferved, that the Scots were not fo unanimous as they oughe to be in recognifing his fuperiority, and that the fubmiffion, which had been figned by the candidates, was not fufficient to carry it into execution. For this reafon he demanded that all the forts in Scotland ibould be put into his pofieflion, that he might refign them to the fuccels. ful candidate.

Though nothing could be more flamef:1 than a tame compliance with this laft demand, the regency of Scotland without hefitation yielded alfo to it; for which they gave the following reafons. "That whereas they (the ttates of Scotland), had, with one affient, already granted that King Edward, as fuperior lord of Scotland, flould give lentence as to their feveral rights and titles to the crown of Scolland, \&c. but as the laid king of England cannot put his judgement in full exccution to anfiver efiectually without the poffelfion or feiin of the faid country and its caftles ; we will, grant, and aifent, that he, as foveceign lord thereof, to perfurm the things aforefaid, fhall have fefinin of all the lands and caftles in Scotland, until right be cone to the demandants, and to the guardians and community of the kingdom of Scotland, to reflore both it and its cafles, wit all the royalties, dignities, franchifes, cultoms, rights laws, ufages, and poffeffions, with their appurtenances, in the fame fla:e and condition in which they were when he received them; faving to the king of England the homage of him that Thall be king; fo as they may be reflored within two months after the day on whicia the rights fhall be deternined and affirmed; and that the pron̂ts of the nu.tion which mall be recti ed in tle : an time lhali be hept in the hands of the chamberl is: of Sco:land that now is, and one to be joined with him by the king of England; fo that the claaze of the go ernment, caftles, and officers of the realm, may be deducied. In witnefs whereof, \&c."

For thefe reafons, as it is faid, the regency pat into the hands of Edward all the forts in the cour try. Gilbert de Umfreville alone, sho had the commarid of the cafles of Dundee and Forfar, refufed to deliver them up, unnil he flowld be inden nificd by the tlates, and by Eduard hir ${ }^{-}$dff, from all peralies of trealun of which $c$ wi: ht - Feernard 'c in danger.

Put thon h lilw...rd hid thus ohtain ed $\Gamma$ : $T=$ of Af w . .e nower of fle nation, he did nut thid ary to de cimane every thing by his own a.iturit, I Inch


## S 00 <br> [ 606$]$

Sectland of this, Fie appointed eommiffomars, and promiled to grant letters-patent declaring that fentence fhould be pafied in Scosland. It had been all along forefeen that

IIS Commiftoners approinted to determine the pretenfiuns of the candidates.
the great difpute would be between Bruce and Baliol; and though the plea of Cummin was judged frivolous, yet he was a man of too much influence to be neglected, and he agreed tacitly to relign it in favour of Ealiol. Ederatd aceordingly made him the compliment of joining him with Baliol in nominating 40 commiffroners. Bruce was to name 40 more ; and the names of the 80 were to be given in to Edward in three days; aiter which the king was to add to them 27 of his own choofing. The place and time of mecting were left at their own option. They unanimoufly pitched upon Berwick ior the place of meeting; bit as they could not agree about the time, Edward appuinted the fecond of A uguf following. Soon after this, the regents refigned their comnitions to Edward; but he returned thein, with powers to ach in his name ; and he nominated the bihop of Caithnefs to be chancellor of Scotland; joining in the commiffion with him Walter de Hemondelham an Englithman, and one of his own fecretaries. Still, however, he met with great difieulties. Many of his own great men, particularly the earl of Gloucefter, were by no means fond of increafing the power of the Englifh monarch by the acquifition of Scotland; and therefore threw fuch obftacles in his way, that he was again obliged to have recourfe to negotiation and intrigue, and at laft to delay the meeting until the fecond of June in 1292 : but during this interval, that he might the better reconcile the Scots to the lofs of their liberty, he propofed an union of the two kingdoms; and for this he iffued a wit by virtue of his fiperierity.

The commiffoners having met on the fecond of June 1292, ambaffadors for Norway prefented themelves in the affembly, demanding that their mafter lhould be admitted into the number of the claimants, as father and next heir to the late queen. This demand too was admitted by Edward, after the ambafixdors had acknowledged his fuperiority over Scotland; after which he propo!ed that the claims of Bruce and Baliol should be previoufly examined, but without prejudice to thofe of the other competitors. This being acereed to, he orderd the commifioners to examine by what lats they ought to proceed in forming their report. The difcuffion of this queftion was attended with fuch difficulty, and the opinions on it were fo various, that Edward once more adjourned the affemhly to the $12 t^{\prime}$ of Ottoher following; at which time he required the members to zive their opinions on the two following points: 1. By what laws and cuftoms they ought to proceed to judgement; and, fuppofing there could be no law or precedent found in the two kingdoms, in what manver? 2. Whether the kingdom of Scotland ought to be taken in the fame view as all other fiefs, and to be awarded in the fame manner as earldoms and baronies? The commifioners replied, that Edward ought to give juftice conformable to the ufage of the two kingdoms: but that if no certain laws or precedents could be found, he might, by the advice of his great men, enact a new law. In anfiver to the fecond queftion they filt, that the fucceffion to the kingdom might be anordel in the fame manner as that to cther eftates and great baronice Upon Llis. IEdward ordered Bruce
and Baliol to be called before him ; and both of them. Scotland. urged their refpective pleas, and anfivers, to the following purpole.

Bruce pleaded, I. That Alexander II. defpairing of $\quad$ Ifo heirs of his own body, had declared that he held him to pleas of be the true heir, and offered to prove by the teftimony Bruce and of perfons fill alise, that be declared this with the ad- Baiol. vice and in the prefence of the good men of his kingdom. Alexander III. alfo had declared to thofe with. whom he was intimate, that, failing iffue of his own body, Bruce was his right heir. 'the people of Scotland alfo bad taken an oath for maintaining the fucceifion of the neareft in blood to Alexander [II. Who ought of right to inherit, failing Margaret the Maiden of Norway and her ifite.-Baliol antivered, that nothing could be concluded from the acknowledgement of Alexander II. for that he left heirs of his budy; but made no anfier to what was faid of the fentiments of Alexander III, and of the oath made by the Scottiin nation to maintain the fuccellion of the next of blood.
2. Bruce pleaded, that the right of reigning ought to be decided according to the natural law, by which kings reign ; and not according to any lave or ufage in furce between fubject and fubject: That by the law of nature, the neareft collateral in blood las a right to the crown; but that the conftitutions which prevail among vaffals, bind not the lord, much lefs the fovereign : That although in private inheritances, which are divifible, the eldeft female heir has a certain prerogative, it is not fo in a kingdom that is indivifible; there the nearcft heir of blood is prelerable whenever the fuecetion opens. - To this Baliol replied, that the claimants were in the court of their lord paramount ; and that he ought to give juchement in this cafe, as in the cafe of any othor tenements, depending on his crome, that is, by the common Jaw and ufage of his kingdom, and no other. That by the laws and ufages of England, the eldent female heir is preferred in the fucceffiun to all inkeritances, indiviable as well as divifible.
3. It was urged ty Bruce, that the manner of fucceffion to the kingdom of Scotland in former times, was in favour of his claim; for that the brother, as being neareft in degree, was wont to be preferred to the fon of the decealed king. Thus, when Kenneth Nacalpin died, his brother Donald was preferred to his fon Conftantine, and this was confirmed by feveral other aurthentic inflances in the hiftory of Scotland.-Baliu! anfwered, that if the orother was preferred to the fon of the king, the example militated againft Bruce; for that the fon, not the brother, was the neareft in riegree. He admitted, that after the death of Malcolm III. his brother ufurped the throne; but he contended, that the fon of Malcolm complained to his liege lord the king of England, who difpoffefied the ufurper, and placed the fon of Malcolm on the throne; that after the death of that fon the brother of Malcoln III. again ufurped the throne ; but the king of England again difporfeffed him, and railed Edgar, the fecond fon of Malcolm, to the fovercignty.
4. Bruce pleaded, that there are exampics in other countries, particularly in Spain and Savcy, where the Ion of the fecond daughter excluded the grandion of the eldef daugliter. Beliol anfiscred, that examples from foreign countries are of no importance; for that

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Soction : according to the laws of Fingland and Scutland, where kings reign by fuccefion in the direct line, and ea:ls and barons fucceed in like manner, the iffuc of the younger filter, although nearer in degree, excludes not the iflue of the eldell fifer, although more remute; but the fucueffion coatinuss in the direct line.
5. Bruce pleaded, that a female ought no: to reign, as being incapable of governing: That at the death of Alexander IIL, the mother of Baliol was alive; and as the could not reign, the kingdom devolved upon him, as being the neatit rale heir of the blood royal. Bat to this Baiioi replied, that B:ace's argume:t was inconfilent with his claim: for tist if a femule ought not to reign, Lrabella the mother of Bruce oughe not, nor muft Bruce himfelf chaim through her. Beffiec, Fruce himfeif had fiworn fealey to a female, the maiden of Norm?

The asguments being thus faled on both fides, Edward demand d an antwer from the cuuncil as to the anetits of the competitors. He alfo put the following queftion to them: By the laws and ulages of both
 remote in one degree, cxclude the illue of the lecond fifer, though neace in one degree' or oug't the n-ar$\mathrm{c}=$ in o:se degree, ifiting from the ficoud fiter, to $\mathrm{cx}-$ calde tive more remote in one degree iflaing from the cileit fifter? To this it was anfoered ummimoully, That by the lans and uffacs of both kingdoms, in every hariable froceffim, the more remo'e in one degree linenly defcended frons the eldell lith; was pie. ferable to the nearer in dogree intiong foum the Second fiter. In cu.fequence of this. Bruce $\because$ as excluded from the f: c.fion; on which he entered a claim for one thira oi the kingdom: but being baffed in this alfo, the kingdom of Scoliand being determined an indivifible fee, SJ.vard ordered Joh:i Balio! to have fétin of Scotland; with tilis cuveat, however, " That this judgement 7, ouid not impair his claim to the lwepery o: S ntiand."
t2t Afier fo marg hilgracefol and hamiliating canceftho is fir - wa the park of ti.e Scota, John Elliul w.s crowrrrowned at ed $\mathrm{K}: 17$ at Scome on the sath Nuvember I202; at:? Scone, f nild d tie cerem hy ding homage to the king of Ergland. All lis C.ibmirins, however, coulu not futisfy Edwa I, as long as the leak that w of inde codence remi.c. 10 Sculand. A ciliz 1 of Reinick
 by I.d ar-1, in codit to cary his cau" into England. Eut this was ofp led ly Bails, who plealed a promile
 ferve ti.c iaws and ti.ges of Scotland, and not withdrw any caries frm "cutlard into his Erscrilh courts."
peared that he intenued to exercife his rizints of fupe. Saotamd. riurity is the mof provoking manner. "the frit inft. "r. was in the cufe of Malco'm earl of Eife. This ne sleman had tho fors, Colban his heir, and another w:o is conltant? samention in hitury by the family. nax: e of Nrouuth.-It is faid, If Matalculn pat Macdaft in : ficition of the lands of tieres and Crey. MIalco'ri ad in 1266; C Iban his lon, in 1275; Duncan the tum of Collan, in 1288 . To this lat carl, his 10il !)un $: \%$, an intant, fuccocued. During the non-天is- of this Danc:n, grand-nejint: of Miacduff, Will limm archtifhop of St Andrew's, suardian of the earliom, dilipuffelfed MIacduni. Hé com; inined to Edwaid; who having ordsted his caufe to be tiid, reftored him again to p ffeffion. Mathers were in this flate when Boliol leid his firtt pariament at Scone, roth Felvary $12 y 3$. Piete Maeduat was cited to anlwee for having taken p. fieflion of the lands of Reres and Crey, which were in popli. fion of the king fince the death of the latt carl of Fife. As his defences did not fatisfy the court, l:e swas condemned to imprifonment; but an action was referved to him againil Durcan, when he flould come of age, and agaimut his heirs. In all this defonce, it is farprifing that Macdurf fhould have omitted his ftrongcit zrgument, viz. that the regent', by Edward's aththority, had put him in poffefion, and that Baliol had ratifiad all things under Edward's authonity, However, as foon as lie was let at liberty, he petitioned Baliol for a rehearing; but this being refuled, he appeaied to Elvard, who ordered Baliol to appear before lim in perfon on the 25 th of March 1293 : but as Bal:ol didHe fiut not obey this order, he fummoned him again to ap-murs bapear on the ${ }^{1} 4^{\text {th }}$ of Oztober. In the mean time the pear bcEinglith parliament drew up certain Aana" $\begin{gathered} \\ \text { E orders in fore him. }\end{gathered}$ calcs of appesl from the king of Scots; all of which An. 129*. were hasth and captious. Oie of thele regulations proviled, "that no excule of a5fence fhoald be received cither from the aprexlant, or the King of Scotland refondent; but that the parties mi,ht have counfcl if they requived is."
'flough Bahiol had not the courage to wilhfand the who befecend fumons of Edward, he behwed with confider-hwis with at': rnitution at the trial. The caufe of MI..cduff be refolution inz rounh on, Edward aked Bulinl what he hod to ofier in ti, own defence; to which he replied, "I ans Fias of Scotland. To the complaint of Triacduff, or to oun he clfe refpecting my kingdom, I dare not make anitre: whitheat the advice of riy people." - Etward affected fu-prife at this refufat, afier the fubmifions whi h Baliol had already made him ; but the latier feadily replied, "In matters refipedting my kingd m, I necther riare not conn anfiver in this place. wihout the adsice of my peop.e." Edward then defircd him to atk a fartl er adiournment, that he might advile with the nation. But Baliol, perceiving that his doing fo would inply an acquaiefcence in Edward's rigl:b of sequiring his perfonal attendance on the Englith courts, replied, "That he would neither ank a longer day, nor confent 10 an adinumment."- 11 was then reflycd by the par-11425 liament of England, that the hing of Scotland had of teoce. fercel no defence; that he had made evalive and difrefpustidl anfwers: and that lie was guilty of manifeit cont nopt of the court, and of open difubedience. To recompence Macduff for his imprifonment, he was ordered damates from the ling of Scots, to be laxed by
 $i^{\prime}$ wad inquir, accordi to the ufoge of $t:=$ chantry, when has Waduff recorered the tenements in cuchtim by don sement of the king's court, and whether he wras i ffelled by the king of Scots. It was inlo resolved, that the thrce principal caltles of Scolland, with lie towns in which they wise fituated, ail it the royal justliction over them, gould be taken into the ca? ody of the king, and there remain until the king of Scots fhould make fatisfaction for his contempt and difobedience. But, before this judgement was publicly intimated, Baliol adireffed Edward in the following words: "My lord, I am your liege-nan for the kingdom of Scotiand; ilat, whereof you have lately ireated, refpeets my people no lefs than myielf: I therefore pray you to delay it until I have confulted my people, left I be furprited through want of advice: 'They who are now with me, neither will nor dare advife me in abfence of the reft of my kingdom. After I have advifed with them, I will in your firft porliament after Eafter report the reialt, and do to you what I ought."

In conlequence of this addres, Edward, with confent of Macauf, ftopped all proceedings till the day after the fealt of Trinity 1294. But betore this term Edward was obliged to fufpend all proceedings againft the Scots, in conlequence of a war which broke out with France. In a parliament held this year by Edward, the king of Scotland appeared, and confented to furrender the whole revenues of his Englifh eftates for three years to atfilk Edward againt his enemy. He was alfo requifed and ordered by Eoward to extend an embargo laid upon the Engliik veffels all over Scotland; and ihis embargo to endure until the king of England's further pleafare fhould be known. He alfo requefted Baliol to fead lome troops for an expedition into Gafcony, and required the prefence and aid of feveral of the Scottifh ba:ons for the fame purp)fe. The Scots, however, eluded the commands of Edward, by pretending that they could not bring any confiderable force into the field; and, unable to bear his tyranny any longer, they negociated an alliance with Philip King of France. Having affembled a parliament at Scone, they prevailed upon Baliol to difmifs all the Englifhmen whom be maintained at his court. They then appointed a consmittee of cwelve, four biliops, four earls, and four barons, by whofe advice every thing was to be regulated; and, if we may credit the Englith hiltorians, they watched the condact of Baliol himfelf, and detained him in a kind of honourable caplivity. They could not, however, prevent him from deliveriag up the callles of Berwick, Rexturg ${ }^{1}$, and Jedburgh, to the bithop of Carlifle; in while cutiody they were to remain during the war betwcen England and Fr.. ice, as a pled re of his allegiance. Notwithtanding this, Baliol concluded the alliance with Plilip; by which it was Atipulated, that the latter fhould give in marriso the eldelt daughter of the count of A juun to B-lis's fon ; and it was allo provided, that Dati: f fhouid not may ayain without the confent of Philip. The kins of Sotkand engaged to affirt Philip in his wars at his own expence, and with his whole power, el. cei IV if Edward ins: ded France ; and Philip on lis part engi ad to afint Scotland, in cafe of an Faglith invafion, either oy making a divezfion, or by "en ing fuccor's to the Scutch.

Fitsed with the 1. is of ifiltance from France, the

Scots is rale: Punterland witio a mivh: o. ur and Soolend. 1 id fige to $C$ ili..e. The mien abandoned the place; $\underbrace{1}_{123}$ but the women mounted the wal's, and drove the al- 1 hesrots failarits from the attack. Another incurfion into North- meare ar berland proved almo:t as difgraceful. Their whole Et a land expluits confifted in ourning a nunnery at Lumley, and without a monaftery at Cutebridge, though dedicated to their iuccefs. patron St Andress; but having attempted to thorm the caltle of Harbotile, they were repulfed with lois. In the mean time Edward, with an army equal in number to that of the Scote, but much fuperior in 1 ppect of difcipline, invaded the eaftern coalt of Scotland. Berwick had either not been delivered according to promife, or had been refumed by the Scots, and was now defended by a numerous garrifon. Edward affaulted it Rerwick by fea and land. The fhips which began the attack tak $r$, and were all either burnt or ditabled; but Edward having the mhabiled on his army in perfon, took the place by form, and facred by cruelly butchered the inhabitants, to the number of Elward. 8000 , without diftinction of fex or age. In this town there was a building called the Red hall, poffeffed by certain Flemings, by the tenure of defending it at all times againft the king of England. Thirty of thefe maintained their ground for a whole day againft the Englifh army; but at night the building being fet on fire, all of them perifhed in the flames The fame day the caftle capitulated ; the garrifon, confifting of 2000 men, marched out with all the honours of war, after having fwom never to bear arms againft England.

In the mean time, Baliol, by the advice of his parlia-Baliul's rement, folemnly and openiy renounced his allegiance to nunciation Edward, fending him the following declaration :-
"To the magnificent prince, Edward, by the grace giance to of God, king of England; John, by the fame grace, England. king of Seotland.
"Whereas you, and others of your kingdom, you not being ignorant, or having caufe of ignorance, by your violent power, have notorioufly and frequently done grievous and intolerable injuries, contempts, grievances, and ftrange damages againtt vs, the liberties of our kingdom, and againft God and jufice; ciling us, at your pleafure, upon every flight fuggeftion, out of our kingdom; unduly vexing us; leizing our caftles, lands, and poffeffions, in your kingdom; unjuftly, and for no fault of ours, taking the goods of our futjects, as well by fea as land, and carrying them into your kingdom ; killing our merchants, and cthers of our kingdom ; cartying away our fubjees and impriloning them: For the reformation of which things, we fent our melfengers to you, which remain not only unredreffed, but there is every day an addition of worfe things to them; for now you are come with a great army upon the borders, for the difinheriting us, and the inhabitants of our kingdom ; and, proceeding, have inhumanly committed flaughter, burnings, and violent invafons, as well by fea as land: We not being able to fuftain the faid injuries, griesance", and damages any longer, nor to romain in your leally or homage, extorted by your violent oppreffion, reflore them to you, for ourfelf, and all the inhabitants of our kingdom, as well for the lands we hold of your in your kingdom, as for your pretended guvernment over us."

Edward was prefented with this rema:ciation by the hands of the intrepid Henry abbot of Aherbrothwick; and es it was tavorrable to his polition viens, he reccive]

## S C O

Scorland. ceived it rather with contempt than anger. "The fuolith $\underbrace{}_{\text {traitor," faid he to the abbot, " fince he will not come }}$ to us, we will go to him." The abbot had been perfuaded by his enemies, of whom he had many in Scotland, to prefent this letter, in hopes that Edward would have put him to death; but he had addrefs enough to efcape without receiving any other anfiver.

Though this feheme of reniniciation had been concerted fome time before, the declaration was not fent to Edward till after the taking of Berwick. The fate of Scotland, after it, however, was foon decided. The earl of March had fided with Edward, but the countefs betrayed his cattle of Dunbar into the hands of the

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The Scots defeated at Nunbar. mits to Edward.
vantageous poft, and pouring down on their enemies in confufion, they were difperfed and defeated.
The caftle of Dunbar furrendered at difcretion; that of Roxburgh followed the fame example; the caftle of Edinburgh furrendered after a fhort fiege; and Stirling was abandoned. The Scots, in the mean time, were guilty of the greateft extravagances. During the fhort interval between the lofs of Berwick and the defeat at
Dunbar, an order was made for expelling all the Englift interval between the lofs of Berwick and the defeat at
Dunbar, an order was made for expelling all the Englifh ecclefiaftics who held benefices in England; all the partizans of England, and all neutrals, were declared An. 1296. traitors, and their eftates confifcated. But the great 132 fucceflies of Edward foon put an end to thefe impotent Baliol fub. acts of fury. Baliol was obliged to implore the mercy

Scots. Edward fent a chofen body of troops to recover the place. The whole force of Scotland oppofed them on the heights above Dunbar; but leaving their adacts of fury. Baliol was obliged to implore the mercy and bearing a white rod ia his hand, he performed a moft humiliating penance ; confeffing that by evil and falfe counfel, and through his own fimplicity, he had grievoufly offended bis liege lord. He recapitulated his various tranfgreffions, in concluding an alliance with France while at enmity with England ; in contracting his fon with the niece of the French king; in renouncing his fealty; in attacking the Englift territories, and in refifting Edward. He acknowledged the juftice of the Englifı invafion and conqueft ; and therefore he, of his own free confent, refigned Scotland, its people, and their homage, to his liege-lord Edward, 2d July 1296.

The king of England purfued his conquen, the S.otland. barons everywhere crowding in to fivear fealty to him, and renounce their allegiance to France. Mis jour- ${ }^{136}$ ney ended at Elgin, from whence he returned fouth- Sinbland. ward ; and, as an evidence of his having made an abfolute eonqueft of Scotland, he carried off from Scone the wooden chair in which the kings were ufually crowned. This chair had for its bottom the fatal tlone regarded as the national palladium (D). Some of the clarters belonging to the abbey were carried off, and the feals torn from others.

On the 28 th of Augult 1206, Edward held a parliament at Berwick, where he received the fealty of the elergy and laity of Scotland. It is faid, that while the Englith monarch was employed in the conqueft of Scotland, he had promifed the fovereignty to Robert Bruce, lord of Annandale, in order to fecure his fidelity ; but being put in mind of his promifc, he anfivered, "Have I no other bufinefs but to conquer kingdoms for you ?" Bruce filently retired, and paffed his days in obfcurity. Among thofe who profeffed their allegiance at this parliament was Robert Bruce the younger, earl of Carrick. After this, Edward took the moft effectual methods of fecuring his new conqueft. He ordered the eltates of the clergy to be reftored; and having received the fealty of the widows of many of the Scottifh barons, he put them in poffeffion of their join-ture-lands, and even made a decent provifion for the wives of many of his prifoners. Yet, though in every thing he behaved with great moderation towards the Scots, he committed the government of certain diftricts, and of the chief caflles in the fouth of Scotland, to his Englifh fubjects, of whofe fidelity and vigilance he thought himfelf affured. In order to conciliate the affections of the clergy, he granted to the Scottith bifhops, for ever, the privilege of bequeathing their effects by will, in the fame manner as that privilege was enjoyed by the archbihops and bifhops of England. In honour of the "glorious confeffor St Cuthbert," he gave to the monks of Durham an annual penfion of 40 pounds, payable out of the revenues of Scotland, by the tenure of maintaining, before the flrine of the faint, two waxtapers of 20 pounds weight each, and of diftributing twice a-year one penny each to 3030 indigent perfons.
(D) "This fone is thus deferibed by W. Hemingford, tom. i. p. 37. "Apud monafterium de Scone pofitus erat lapis pergrandis in ecclefia Dei, juxta magnum altare, concavus quidem ad modum rotundae carhedra confectus, in quo futuri reges loco quafi coronationis ponebantur ex more. Rege itaque novo in lapide pofito, miffarum fulemnia incepta peraguntur, et praterquam in elevatione facri dominici corporis, femper lapidatus, manfit." And again, tom. i. p. 100. "Jn redeundo per Scone, precepit tolli et Londoniis cariari, lapidem illum, in quo, ut fupr:t dictum eft, reges Scotorum folebant poni loco coronationis fux, et hoc in fignam regni conquefi et refignatt." Wial. fingham mentions the ufe to which Edward put this fone: "Ad Weftmonafterium tranfulit illum, jubens inde fieri celebrantium cathedram facerdotum." This account of the faial None is here tranfcribed, that it may be compared with the appearance of the flone that now bears its name at Weftminfter.

Fordun has preferved the ancient rhymes concerning it; lib. xi. c. 25 .

> " Hic rex fic totam Scotiam fecit flbi notam, Qui fine menfura tulit inde jocalia plura, Et pariter lapidem, Scotorum quem fore fedem Regum decrevit fatum; quod fic iolevit, Ni follat fatum, Scori quocunque locaumn Invenient lasidem, regnare tenentur ibidem."

## S C O [ 010 ] S C O

Stotta:: .

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New ci-
Aturbanses.
1.35

Sis william
Wallace.
An. 1297.

At laft, having fettled every thing, as he thought, in tranquility, he departed for England, with all the triumph of a conqueror.

The tranquillity eftablifhed by Edward was, Lowever, of fhort duration. The government of Scotland at that time required many qualities which Edward's vicegerents did not poffels. Warenne, earl of Surrey, who had been appointed governor, took up his abode in England, on pretence of recovering his bealth. Creffingham, the treafurer, was a voluptuous, proud, and felfifh ecclefiaftic; while Ormelby the juiticiary was hated for his feverity. Under thefe officers the adminiftration of Edrard became more and more feeble; bands of robbers infefted the highways, and the Englifh government was univerfally delpifed. At this critical moment arofe Sir William Wallace, the hero fo much celebrated in Scottifh fables, by which indeed his real exploits are fo much obfcured, that it is difficult to give an authentic relation of them. The moft probable account is, that he was the younger fon of a gentleman (Wallace of Ellerflie) in Renfrewfhire (E). Having been outlawed for fome offence, he affociated with a few companions, of fortunes equally defperate with his own. Wallace himfelf was endowed with great frength and courage, and an active and ambitious firit; aind by his affability, eloquence, and widom, he maintained an authority over the rude and undifciplined multitudes who flocked to his \{landard. In May 1297, he began to infeft the Englifh quarters; and being fuccefsful in his predatory incurfions, his party became more numerous, and he was joined by Sir William Douglas. With their united forces, thele two allies attempted to furprife Ormefby the jufticiary, while he held his courts at Scone; but he faved himifelf by a precipitate flight. After this the Scots roved over the whole country, affaulted caftles, and maffacred the Englifh. Their party was joined by many perfons of rank; among whom
were Robert Willart bifhop of Glafyow, the fteward of Scot?and. Scotland (E), and his brother Alexander de Lindtay, Sir Richard Lundin, and Sir Andrew Moray of Bothwell. Young Eruce would have been a valt accellion to the party; for he poficfied all Carrick and Ammandale, fo that his territories reached from the fith of Clyde to Solway. But the wardens of the weliern marches of England fufpected his fidelity, and Jummoned him to Carlifle. He obeyed, and made oath on the conlecrated hott, and on the fivord of Becket, to be faithful and vigilant in the caufe of Edward; and to prove his fincerity, he invaded with fire and fword the cilate of Sir William Douglas, and carried off his wife and children. However, he inflanily repented of what he had done: "I truft (faid he), that thic pope will abfolve me from an extorred oath;" on which he aboudoned Edward, and joined the Scottiib army,

All this time Edward was in France, not in the leaft fufpecting an irfurrection among people whom he watagined he had thoroughly fublued. As foon as lie received the intelligence, he ordered the earl of Surtey to fupprefs the rebels; but he declining the command of the army himfelf on account of his health, refigned it to his nephew, Lord Henry Percy. A great army,

 bled, with which Percy marched againlt the Scots. He found thom encamped at Irvine, with a lake in their front, and their fanks fecured by intrenchments, fo that they could not be attacked without the utinoft danger. The Scots, however, ruined every thing by their diffenfions. Wallace was envied on account of his accomplifhments, which had raifed bis reputation abore the other cfricers, whofe birth and circumflances nere ligher than lis. His companions accordingly became jealous, and began to fuggeit, that an oppolicion to the Englifh could only be productive of farther national defruction. Sir Richard Lundin, an officer of great rank, formed
(E) The defent of Sir Wrilliam Wallace has fearcely been carried with accuracy beyond his father, Wallace of Ellerlie. It has been fuppofed that the family of Wallace or Walieys, came originally from Wales; but according to Mr Chalmers, they were an Anglo-Norman fanily, originally denominated Walente, of whom Richard Walenfe, who appears as a witnefs to the charters of Walter, the fon of Alan, the firft of the Stewarts, acquired lands in Kyle, in Ayrfhire, where he fettled. This Richard was fucceeded by his fon Richard, who was cotemporary with Alan, the fon of Walter the Stewart. Another branch of the fanily of Walenfe fettled in Renfrewfhire, under the kindly influence of the Stewarts; and of this branch Henry Walenfe, probably a younger fon of the firt Richard, held fome lands in Renfrewfhire under Walter the Stewart in the early part of the 13 th century. From this Henry was defcended Nalcolm Waleys of Ellerfly, the father of Sir William Wallace, the cbampion of Scottifh independence.

We find that the family of Wallace was patronifed by that of Seewart, which now began to make a diftinguifhed figure in Scottifh hiftory. The genealogy of this illufrious houfe has been much difputed, and is involved in great obfcurity. Mr Chalmers feems to have throun confiderable light on the origin : the Stewarts, and has traced them farther back than the generality of hiftorians. According to this writer, Walter the fon of Alan, who is gencrally confidered as the firf of the Stewarts, came from Shrop fhire in Englatid, and his father Alan was the fon of Flaald, and the younger brother of William, fon of Alan, the progenitor of the famous houfe of FizzAlan, earls of Arundel. Alan the fon of Flaald married the daughter of Warine, the famous fieriff of Shropfhire, foon after the Norman conqueft, in which both thefe familics bore a part in the fuite of William ; and of this marriage was born William, the undoubted heir both of Alan and of Warine. Now, Richard Fitz-Alan, earl of Arundel, who in 1335 claimed the poff of fteward of Scotland by hereditary right, and fold this title and claim to Edward III. for 1000 merks, had not, according to Mr Chalmers, any right to the Aewardhlip of Scotland; but Walter, the younger brother of William, the fon of Alan, the progenitor of Richard Fitz Alan the claimant, was the firff purchafer of this hereditary office. Robert the Stewart, who was born of Margery, the daughter of Robert Bruce in 1316, and became king of Scots in $\mathbf{1 3 7 0}$, was then in poffefion of the hereditary office of Sicuert by lineal defcent.

S C O [ 6
$\underbrace{5 c o t l a n d}$ formed a paity againh Wailh all his followers. Other leaders entered into a negociation with the Englith. Bruce, the theward and his brother Alevander de Lindelay, and Sir Wiilliam Douglas, ack:owledged their offences, and made fubmilions to E.dward for themfelves and their adherents.
This fcandalous treaty fcems to have been negociated by the bilhop of Glafgow, and their rccantation is recorded in the fullowing words.- "Be it known to all men: Whereas we, with the commons of our country, did rife in arms againit our lord Edward, and againit his peace, in his territories of Scotland and Galloway, did burn, flay, and commit divers robbelies; we therefore, in our own name, and in the name of all our adherents, agree to make every reparation and atoneruent that thall be required by our fovereign lord; referving alsays what is contained in a writing which we have procured from Sir Henry Percy and Sir Robert Clifford, commanders of the Englifh forces; at Irvine, 9th July 1297 ." 'Fo this initrument was fubjoined, .. Eferit a Site Willaume; the meaning of trhich Lord Hailes fuppofes to be, that the baror:s had notifed to Sir William Wallace their baving mede terms of accommodation for themfelves and their pariv.

Ediward accepted the fubmition of the Siottila basons who had been in arms, and granted liberty to thofe whom he had made prifoners in the courfe of the former year, on condition that they fhould ferre him in his wass againt France. The inconflancy of Bruce, however, was fo great, that acknowledgments of fubmiffon or oaths of fealty were not thought fufficiently binding on him ; fur which reafon the bilhop of Glafgow, the Steward, and Alexander ce Lindefay, became fureties for his loyalty and good behaviour, until he fhould deliver his daughter Margery as an hoflage.

Wallace alone refufed to be concerned in thefe fhameful fubmiffions; and, with a few refolute followers, refolved to fubmit to every calamity rather than give up the liberty of his country. The barons had undertaken to procure his fubmiffion as well as their own; but finding that to be impoffible, the bifhop of Glafgow and Sir William Douglas voluntarily furrendered themfelves prifoners to the Englifh. Edward, however, afcribed this voluntary furrender, not to any honourable motive, but to treachery. He aferted, that Wihart repaired to the cafle of Roxburgh under pretence of yielding himfelf up, but with the concealed purpofe of forming a confpiracy in order to betray that cafte to the Scots; and in proof of this, Edward appealed to intercepted letters of Wihart. On the other hand, Wallace, afcribing the bifhop's conduct to traiterous pufillanimity, plundered his houfe, and carried off his family captives.

Immediately after the defection of the baroms at Irvine, Wallace with his band of determined followers attacked the rear of the Enclifh army, and plundered their baggage; but was obliged to retire, with the lofs of 1000 men . He t'ien found himfelf deferted by almof all the men of eminence and property. His arsav, however, increafed confiderably by the acceffion of nurahers of inferior rank, and he again began to att on the offenfive. While he employed himfelf in befieging the calle of Dundee, he was informed that the Englith army approached Stirling. Wallace, having charged the citizens of Dundee, under nain of death, to
continue the blockade of the cafle, huleried wit all his troops to guard the important palfage of the Forth; and encamped behind a riling ground in the neiglibons:hood of the abbey of Cambulkenneth. Brian Fizz. A.lan had been appointed governor of Scotland by Edward ; but Warenne, who waited the arnival of his fucceffor, remained wish the army. Imagining that Wia lace might be induced by fair means to lay down hiarms, he difpatched thio friars to the Scottih camp, with terms of capitulation. "Return," faid Wallace, " and tell your matlers, that we came not here to treat but to affert our right, and to fet Scotland free. Let them advance, they will find us prepated." The Eng-Givesu lith, provoked at this anfwer, demanded impatiently to Erglath a be led on to battle. Sir Kichard Lundin remonftrated great deagain!t the abfurdity of making a numerous army pafs stiflng by a long narrow bridge in preience of the enemy. He $1:$ th. told them, that the Scots would attack them beforetember they could form on the plain to the north of the hidege, ${ }^{t-1)_{i}}$. and thus certainly defeat them: at the fame time he offered to thow them a ford, which having crofled with 500 horfe, and a chofen detachment of infantry, he propofed to come round upon the rear of the eneiny, and by this diverfion facilitate the operations of the main body. This propofal being rejected, the Englifh army began to pafs over ; which was no fooner perceived by Wallace, than he rufhed dorn upon them, and broke them in a moment. Creffingham the treafurcr was kilied, and many thoulands were flain on the field, or drowned in their flight. The lo's of the Scots would have been inconfiderable, had it not been for that of Sir Andrew Moray, the intimate friend and companion of Vallace, who was mortally wounded in the engagement.

The victory at Stirling was followed by the furrender of Dundee caftle, and other places of frengtis in Scotland; at the fame time the Scots took polfiffion of Berwick, which the Englifh had evacuated. But as a famine now took place in Scotland from bad feafons and the miferies of war, Wallace marched with his whole army into England, that he might in fome meafure relieve the neceflities of his countrymen by plundering the entmy. This expedition lafted three weeks, during which time the whole tract of country from Cockermouth and Carlifle to the gates of Newcaltle was laid wafte with all the fury of revenge and rapacity; though Wallace endeavoured, as far as polfible, to reprefs the licentioufnefs of his foldiers.

In $12 y^{8}$, Wallace alfumed the title of "Guvernor An. 1:3. of Scotland, in name of King John, and by confent of the Scottifh nation ;" but in what manner this office was o'tained, is now in a great meafure unknown. In a parliament, which he convoked at Perth, he was confirmed in his authority; and under this title he conferred the confabulary of Dundee on Alexander fu:named Skrimgcour and lis heirs. This grant is faid to have been made with the confent and anprobation of the 140 Scottifh nobility, 29th March 1298 . From this period, Jra! iy however, we may date the very great jealouly which tweech took place between Wallace and the nobles who pre- Wal the tended to be of lis party. His elevation woundrd their Lard the pride; his great fervices reproached their inactisity in the public caufe; and t] us lie counfels of Scothand ware perplexed with difrull and envy, when ahmont its very exiftence depended on unarimity.

## s co

Scctlaud.

In June 1298, Edward, who had all this time been in Flanders, returned to England and fummoned the Scottifh barons, under pain of rebellion, to attend him in parliament; and, on their difobeying his fummons, he advanced with his army towards Scotland. His main force, commanded by himfelf, affembled at Berwick; but a body of troops, under the earl of Pembroke, having landed in the north of Fife, were defeated with great lofs by Wallace, on the 12 th of June. The fame month Edward invaded Scotland by the way of the eaftern borders. No place refifted him except the caftle of Dirleton. After a refolute defence, it furrendered to Anthony Beck, bilhop of Durham.

Meanwhile the Scots were affembling all their flrength in the interior of the country. Few barons of eminence repaired to the national flandard. They whofe names are recorded, were John Comyn of Badenoch, the younger; Sir John Stewart of Bonkill, brother to The Steward; Sir John Graham of Abercorn; and Macduff, the grand-uncle of the young earl of Fife.-Robert Bruce again acceded to the Scottifh party; and with his followers guarded the important cafte of Ayr, which kept the communication open with Galloway, Argyleflire, and the illes.

The aim of Edward was to penetrate into the weft, and there to terminate the war. He appointed a Heet, with provifions, to proceed to the frith of Clyde, and await his arrival in thofe parts. This precaution was abfolutely neceffary for the fubfiftence of his numerous army in a country impoverifhed and wafte.

Waiting for accounts of the arrival of his flect, he eftablifhed his head-quarters at Templelifon, between Edinburgh and Linlithgow.

A dangerous infurrection arofe in his camp. He had beftowed a donation of wine among his foldiers, they became intoxicated; a national quarrel enfued.In this tumult the Welfh new 18 Englifh ecclefiaftics. The Englifh horfemen rode in among the Welh, and revenged this outrage with great flaughter. The Welth in difguft feparated themfelves from the army. It was reported to Edward, that they had mutinied, and gone over to the Scots: "I care not," faid Edward, diffembling the danger; "let my enemies go and join my enemies; I truft that in one day I fall chaftife them all."

Edward was now placed in molt critical circumftances. As the fleet with provifions had been detained by contrary uinds, he could not venture to advance, neither could he fubfift any longer in his prefent quarters. To retreat would have fullied the glory of his arms, and expofed him to the obloquy and murmurs of a difcontented people. Yet he fubmitted to this hard neceefity. Abandoning every profpect of ambition and revenge, he commanded his army to return to the eaftern borders. At that moment intelligence arrived that the Scots liad advanced to Falkirk.

Edward inftantly marched againft them. His army lay that night in the fields. While Edward flept on the ground, his war-horfe firuck him and broke two of his ribs. The alarm arofe, that the king was wounded. They who knew not the caufe, repeated the cry, "The
king is wounded ; there is treafon in the camp; the ene- scotland. my is upon us." Edward mounted on horfeback, and by his prefence difpelled the panic. With a fortitude ${ }^{1} 42$ of Spirit fuperior to pain, he led on his troops. At The batte break of day, the Scottifh army was defcried, forming of Falkirk, on a fony field at the fide of a fmall eminence in the 22 July neighbourhood of Falkirk.

Wallace ranged his infantry in four bodies of a circular form. The archers, commanded by Sir Jobn S:ewart, were placed in the intervals. The horfe, amounting to no more than a thoufand, were at fome ditance in the rear. On the front of the Scots lay a morafs. Having drawn up his troops in this order, Wallace pleafantly faid, "Now I have brought you to the ring, dance according to your fkill."

Edward placed his chief confidence in the numerous and formidable body of horfemen whom he had felected for tiee Scottifh expedition. Thele he ranged in three lines. The firft was led by Bigot Earl Marfhal, and the earls of Hereford and Lincoln ; the fecond by the bifhop of Durham, having under him Sir Ralph Baffet of Drayton; the third, intended for a referve, was led by the king himfelf. No mention is made of the difpofition of his infantry: it is probable that they were drawn up behind, to fupport the cavalry, and to annoy the Scots with their arrow's and other miffile weapons.

Bigot, at the head of the firt line, ruthed on to the charge. He was checked by the morafs, which in his impetuofity he had overlooked. This obliged him to incline to the folid ground on his left, towards the right flank of the Scottilh army. The bifhop of Durham, who led the fecond line, inclined to the right, turned the morafs, and adranced towards the left flank of the Scottifh army. He propofed to halt till the referve fhould advance. "To mafs, bihop," cried Bafiet, and inftantly charged. The fhock of the Englifh cavalry on each fide was violent, and gallantly withflood by the Scottif infantry; but the Scottih cavalry, difmayed at the number and force of the Englifh men-at-arms, immediately quitted the field. Stewart, while giving orders to his archers, was thrown from his horie and flain. His archers crowded round his body and periflied with him. Often did the Englifh flrive to force the Scottifh circle. "They could not penietrate into that The Scols wood of fpears," as one of their hiftorians fpeaks. By defeated repeated charges, the outermoft ranks were brought to with greas the ground. The Englifh infantry inceffantly galled laughter. the Scots nith fhowers of flones and arrows. Macduff and Sir John Graham fell. At length the Scots were broken by the numbers and weight of the Englifh cavalry, and the rout became univerfal.

The number of the Scots flain in this battle muft have been very great. As is commonly the cafe, it is exaggerated by the hiftorians of the vichors, and reduced too low by the hiftorians of the vanquifhed.

On the fide of the Englifh the lofs was inconfiderable. The only perfons of note who fell were Brian le Jay, mafter of the Englifh Templars, and the prior of Torphichen in Scotland, a knight of another order of religious foldiery ( E ).
$(\Gamma)$ " This account of the action at Falkirk, estracted from Lord Hailes's Annals, is drawn, his Lordihip informs us, from the tellimony of the Englifl hiforians. "They have done juftice (he obferves) to the courage and

## S C O

Scotiant.
The Scots in their retreat burnt the town and calle of Stirling. Edward repaired the caftle, and made it a place of arms. He then marched to the weft. At his approach, Bruce burnt the caftle of Ayr, and retired. Edward would have purfued him into Carrick; but the want of provifions ftopped his further progrefs. He turned into Aunandale, took Bruce's caftle of Lochmaben, and then departed out of Scotland by the weltern borders.

Here may be remarked the fatal precipitancy of the Scots. If they had ftudied to protract the campaign, inftead of hazarding a general action at Falkirk, they would have foiled the whole power of Edward, and reduced him to the neceffity of an inglorious retreat.

An. 1399.
${ }^{1} 44$ Abject condition of John Baliol.
${ }^{1} 45$
Edward obliged to retire.

In 1299 Edward thought proper to releafe John Baliol the unfortunate king of Scotland, whom he had kept clofe prifoner ever fince the ycar 1296. Before this time Baliol had ufed the moft difgraceful methods to recover his liberty. He had folemnly declared, that " he would never have any intercourfe with the Scots; that he had found them a falle and treacherous people; and that he had reafon to fufpect them of an intention to poifon him." Notwithftanding all his proteftations, Edward fill detained him in captivity ; but at laft reIeafed him at the mediation of the pope, though after a fingular form: He ordered the governor of Dover to convey him to the French coaft, and there to deliver him to the papal nuncio, " with full power to the pope to difpofe of Baliol and his Englifh eftate." In confequence of this he was conveyed to Witfand, delivered to the nuncio in prefence of a notary and witneffes, and a receipt taken for his perfon. Notwithflanding this abject flate, however, the Scots continued to own him for their king, and to affert their national independence. Though the misfortune at Falkirk had deprived thens of a very confiderable extent of territory, they were ftill in poffeflion of the whole country beyond the Fortn, as well as the county of Galloway. By general confent William Lamberton bifhop of St Andrew's, Robert Bruce earl of Carrick, and John Cummin the younger, were chofen guardians of Scotland in name of Baliol. Wallace at this time was reduced to the condition of a private man; nor had he any longer the command of the Scots armies, not any fhare in their councils.- The new guardians undertook to reduce the cafle of Stirling, and Edward prepared to defend it. The Scots pofted themfelves at the Torwood, and chofe their ground judicioully, fo that Edward could fcarcely have raifed the fiege without dillodging them; which finding impoffible, he returned home in difgult. Next year he invaded Scotland on the weff fide, wafted Annandale, and reduced Galloway ; but the Scots being being now taught by experience to avoid a general action, chofe their pofts with fuch flill, that Edward could not penetrate farther; and the fame year a truce was concluded with the Scots, to continue till Whit-
did fill belong, to the holy fee; and fupported his ex. Scotland. travagant claim by tome ftrange authorities; fuch as, that Scotland had been miraculoully converted by the relics of St Andrew: after which he proceeded to thow the futility of Edward's pretenfions, and that Scotland never had any feudal dependence on England. He required Edward to fet at liberty all the Scottifh ecclefiallics, particularly Wihart biliop of Glafgow, and to remove his officers from the patrimony of the church: " But (added he) thould you have any pretenfions to the whole, or any part of Scotland, fend your proctors to me within fix months; I will hear and determine according to juflice; 1 telke the caufe under my own peculiar cognizance."

This interpofition of the pope had probably been His preten procured by Scottill emilifaries at the court of home; fions anbut, however ridiculous his pretenfions might be, they ${ }_{\text {Edward }}$ (werd by afforded matter of very ferious confideration to Edward. and his After fpending a whole winter in deliberations, Edward parliaand his parliament made feparate anfwers to the pope, ment. The anfwer of the parliament was to the following purpofe: All England knows, that ever fince the firlt eftablidment of this kingdom, our kings have been liegelords of Scotland. At no time has the kingdom of Scotland belonged to the church. In temporals, the kings of Eugland are not amenable to the fee of Rome. We have with one, voice refolved, that, as to temporals the king of England is independent of Rome; that he fhall not fuffer his independence to be queftioned; and therefore, that he flall not fend commiffioners of Rome. Such is, and fuch, we truft in God, ever will be, our opinion. We do not, we cannot, we muff not, permit our king to follow meafures fubverfive of that government which we have fworn to maintain, and which we will maintain."

The king entered inte a more full refutation of the A flort pope's arguments; and having, as he thought, anfwer- cluce coned them fufficiently, he marched again into Scotland: but, by the mediation of France, another truce was concluded, to laft till St Andrew's day 1302.

After the expiration of the truce, Edward fent an army into Scotland, under the command of John de Segrave. This general divided his troops into three bodies; but, keeping them fo far diftant that they could not fupport each other, they were all engaged and defeated in one day by the Scots, near Roflin (fee RosLiN). This, however, was the latt fucceffful exploit of the Scots at this period. The pope dcferted them; and the king of 1 rance concluded a peace with Eng. land, in which all mention of the Scots was indullrioully avoided; fo that they were left alone to bear the wholc weight of Edward's refentment, who now invaded their

This year appeared a new competitor for the crown of Scotland. Boniface VIII. in a bull directed to Edward, averred, that Scotland belonged anciently, and laft, he was mortally wounded, and the place capitulated. Thence he proceeded northward, according to fome hiftorians, as far as Caithnefs. He then returned
fteadirefs of their enemies; while our hiftorians reprefented their own countrymen as occupied in frivolous unmeaning contefls, aid, from treachcry or refentment, abandoning the public caufe in the day of trial."

## 5 C O [ 61t ] S G O

Sci.iand. towards the fouth, and wintered in Dunfermline. In that place there was an abbey of the Benedictine order; a building fo fpacions, that, according to an Englith hiltorian, three fovereign princes with all their retinue might have been lodged conveniently within its precincts. Here the Scottith nobles fometimes held their aftemblies. The Englifh foldiers utterly demolifhed this magnificent fabric.

The only fortrefs that remained in the poffeffion of the Scots was the caftle of Stirling, where Sir William Oliphant commanded. To proteet this fingle place of refuge, Cummin affembled all his forces. He pofted his army on the fouth bank of the river, in the neighbourhood of Stirling, there to make the laft ftand for the national liberty. The Scots fondly imagined, that Edward would attempt to force the paffage, as the impetuous Creflingham had attempted in circumftances not diffimilar. But the prudence of Edward fruftrated their expectation. Having difcovered a ford at fome diflance, he croffed the river at the head of his whole cavalry. The Scots gave way, and foon difperfed.

All refources but their own courage had long failed them; that laft refource failed them now, and they haftened to conciliate the favour of the conqueror. Previous to this, Bruce had furrendered himfelf to John de St John, the Englifh warden. Cummin and his followers now fubmited to Edward They ftipulated for their lives, liberties, and eftates: referving always to Edward the power of inflicting pecuniary mulets on them as he fhould fee fit.

From the general conditions of this capitulation, the following perfons were excepted: Wifhart bihop of Glafgow, the Steward, Sir John Soulis, David de Grahar, Alexander de Lindefay, Simon Frafer, Thomas Bois, and Wallace. With refpect to them, it was provided, that the biftop of Glafgow, the Steward, and Soulis, fhould remain in exile for two years, and fhould not pafs to the north of Trent; that Gralam and Lindefay fhould be banified from Scotland for fix months ; that Frafer and Bois frould be banifhed for three years from all the aominions of Edward, and Mlould not be permitted, during that frace, to repair to the territories of France. " Is for Willian Wallace, it is agreed, that he fhall render himfelf up at the will and mercy of our fovcreign lord the king, if it thail fecm good to him." Thefe were ail the conditions that the Scottifh nation flipulated for the man who had vanquibed the Englifh at Stirling, who had expelled them from Scotland, and who had once fet his country free!

Amid this urreck of the national liberties, Wallace fcorned fubmifion. He lived a free man: a free man he refolved to die. Frafer, who had too often complied with the times, now caught the fame heroic fentiments. But their endeavours to roufe their countrymen were in vain. The feafon of refiftance was paft. Wallace perceived that there remained no more hope; and fought out a place of concealment, where, eluding the vengeance of Edward, he might filently lament over his 153 fallen country.

Edward aftembled at St Andrew's what is called a parliament. Wallace, Frafer, and the garrifon of Stirling, were fummoned to appear: They appeared not, and fentence of outlawry was pronounced againft them.
ling; and, forefeeing that the reduction of this place Sculked, would be attended with confiderable dificulty, he itripped the abbcy of St Andrew's of tine lead which covered it, in order to employ the metal in bullets for his battering machines. Oliphant was folemnly fummoned to furrender; but in vain. Edward drew out all his artillery, and battered the walls with ftones of 200 pounds weight. The befieged, however, defended themfelves with obftinacy, and killed a great number of the Englih : but at lait they were obiiged to furrender : and Edward, looking upon the conqueft of Scotland as now complete, fet out for York, and from thence to Lincoln.

Though Edrward had thus met with all the fuccefs he could defire in his expeditions againit the Scots, he could not but perceive that bis dominion over them muft be very precarious, as long as he held them in the fubjection of a conquered people. He refolved therefore once more to renew his attempts for an union of the two kingdoms. He began with taking into favour the bifhop of Glafgow, Robert Bruce, and John Mowbray, who, next to Bruce and the Cummins, was doming amongft the greateft of the Scottilh nobility. To them vain. he recommended the fettling the affairs of their country, but in fuch a manner as to leave it in his power to effect the propofed union with England. This fcheme, however, was by no means agreeable to Bruce; who had now no other competitor for the crown but Cum. min , who was in a great meafure incapable of oppofing his defigns : nor indeed could it ever be made agreeable to the bulk of the nation; and therefore came to nothing. Scotland, however, was fubdued. Its inhabitants had renounced every idea of afferting their liberty, and only ftrove to make their court to the conqueror. Wallace alore remained an exception. Edward, who had received into favour thofe who had repeatedly proved traitors, fhowed a mean revenge againft the only man who difcovered a fteady and honourable Augid firit, and whofe friendifip feemed worth the courting, 1305 Ralph de Haliburton, a prifoner, offered his affitance for difcovering Wallace; and for this purpofe he was granted a temporary liberty: but what he did in this very difhnnourable employment is unknown. Certain it is that Wallace was difcovered, and betrayed into the hands of the Englifh, by Sir John Mentcith, the fheriff of Dunbarton. This celebrated and heroic patriot was arraigned at Weftminfter as a traitor to Edward, and as having burnt villages, formed caftles, and flaughtered many fuhjects of England. Wallace denied his having been a traitor, and indeed with truth; for he had always been the avowed enemy of Edward, and had not at any time owned allegiance to him. But whatever his defences might have been, they were of no avail with a judge who had refolved on his deftrution. Wallace was condemned to die a traitor's death, and the fentence was execnted with the utmoft rigour! In his l:ft moments he afferted that independency which a degenerate nation had renounced. His head was placed on a pinacle at I.ondon, and his mangled limbs were diftrituted over the kingdom.

After the death of TVailace, Edward thought of no-Edward's thing but fettling the affairs of Scotland as a conquered preazurous country; but he took care to preferve the ancient forms the focthrg as far as was confittent with the dependent ftate of the ${ }_{\text {affairs. }}$ the Sccrs nation. It has been faid, indeed, that Edward abrogated

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Wallace Waillace
betrayed, and exectutAuguft $\begin{array}{r}134 \\ \hline\end{array}$ Edward ate tempts an union betwo kingdums in





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## s C o

Scooland. $\underbrace{\text { Seorland }}$ all the Scottih luws a:.d cuftoms, and endcavoured to fubfitute the Eirgiilh in their flead; but this is denied by others. Lord Hailes gives us at length the record with refpeet to thele lavs, in the following words. "And, with refpect to the laws and ulages of the government of Scolland, it is ordained, that the cufom of the Scots aric the Brets Shall for the future be prohibited, and be no longer practifed. It is alfo ordained, that the Ling's lieutennnt fhall forthwith affemble the good people of Scoiland: and that, at fuch affembly, thall be read over the ftatutcs made by David king of Scots, and alio the additions and amendments which have been made by other hings; and that the lienienant, with the affitance which he thall then have, as well of Englifhmen as of Scuts, flall amend fuch of thefe fatutes and ufages as are plainly againf the laws of God and reafon, as they beft may in fo fhort a fpace, and in fo far as they can without confulting the king; and as to matiers which they cannot undertake to correct of themfelves, that they be put in writing, and laid before the king by the lieutenant, and any number of commiffioners, with parliamentary powers, whom the Scots fhall think fit to choofe. That they fhall meet with commiffioners appointed by the king, and finally determine as to the premiffes."

This is the record by which it is generally fuppofed that the law of Scotlend was abrogated. But Lord Hailes is of opinion, that the ufage of the Scots and Brets here mentioned was fomething dificrent from the common law of the land. "We know (fays he), from our ftatute-book, that the people of Galloway had certain nfages peculiar to themfelves; Stat. Alex. II. c. 2. One was, that caufes were tried among them without juries [9uon. Attach, c. 72. 73. placed in fome ancient MSS. among LL. David I. c. I5.], and this may probably have been the ufage which Edwatd abolifhed. The people of Galloway were fometimes diftinguified by the name of Scets: thus the wild Sco:s of Galloway is an expreffion to be found in ancient inftruments, and is proverbial even in our own days. The ufage of the Brets, I take to be what relates to the judge called brithibh, or brehion; in Ireland, brehan; and confequently, that the thing here abolifhed was the commutation of punithments by exacting a pecuniary mulet."

An indemnity was now granted to the Scots on certain conditions. Various fines were impofed, from one to five years rent of the eftates of the delinquents. One year's rent was to be paid by the clergy, excluding the bifhop of Glafgow; two by thofe who were more early in their fubmiffions than Cummin; three by Cummin and his affociates, and five by the bihop of Glafgow; four years rent was to be paid by William de Baliol and John Wifhart; and five by Ingelram de Umfraville, becaufe they had food out longer. Three vears rent was alfo paid by the vaffals of Baliol, Wimart, and Umfraville. Thefe fines were to be paid in moieties. The perfon taxed was to pay half his income annuslly: and thus Umfraville, taxed in five years ren!, was allowed $t \in n$ years to difcharge the fine. This was an exprefs refervation to Edward of all the royal demefines which Baliol might have alienated. There was alfo an exception for thefe who were already in cuftody, and mes.z.

Thus, after a long and obftinate contert, was Scotland wholly reduced under the dominion of Edrrasd.

## 5 C 0

$\underbrace{\text { Scotland. }}$ myn." "Fou doubt !" cried Kirkpatrick; on faying which, he rufhed into the place where Cummin lay, and inftantly difpatched him. Sir Robert Cummin, a relation, attempted to defend his kinfman, and fhared his fate. Bruce had now gone fofar, that it was in rain to think of retracting ; and therefore fet himfelf in decided oppofition to Edward. The jufticiaries were then holding their court at Dumfries; and hearing what had happened, imagined their own lives to be in danger, and barricaded the doors. Bruce ordered the houfe to be fet on fire: on which they furrendered; and Bruce granted them leave to depart out of Scotland without $x 63$ moleftation.
$G_{\text {pinion of }}$ Loord Hailes concerning this event.

The above account of this cataftrophe is taken from the Scots hiftorians ; thofe of England differ in many particulars. Lord Hailes fuppofes both to be wrong, and that the true circumftances of the quarrel are unknown. "My opinion (fays he) is, that Bruce, when he met Cummin at Dumfries, had no intention of embruing his hands in his blood, nor any immediate purpofe of afferting his right to the crown of Scotland; that the flaughter of Cummin was occafioned by a hafty quarrel between two proud-fpirited rivals; and that Bruce, from neceffity and defpair, did then affert his pretenfions to the crown."

The death of Cummin affected the Scots*varioufly, according to their different views and interefts. The relations of the deceafed viewed it as a cruel affaffination, and joined with Edward in fchemes of revenge. Some who wifhed well to the peace of their country, thought that it was better to fubmit quietly to the government of the Englifh, than to attempt a revolution, which could not be effected without much danger and bloodthed ; but, on the other hand, the friends of Bruce now faw the neceffity of proceeding to the coronation of the

An. r 306 .
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Robert
crowned
king of
Scotland
by a wo. man. new king without lofs of time. The ceremony was therefore performed at Scone on the $25^{\text {th }}$ of March 1306, in prefence of two earls, the bihops of St Andrew's and Glafgow, the abbot of Scone, John de Athol, and John de Menteith. It had been cuftomary, fince the days of Macbeth, for one of the family of Fife to put the crown on the king's head; and Bruce found the prepoflefion of the Scots in favour of this circumflance fo ftrong, that he was obliged to feek for àn expedient to fatisfy them. Macduff the earl of Fife was at that time in England, where he had married a near relation of Edward. His fifter was wife to the earl of Buchan, one of the heads of the family of Comyn, and confequently the determined enemy of Robert. By an uncommon effort of female patriotifm, the pofponed all private quarrels to the good of her country, and in her hulband's abfence repaired, with all his warlike accoutrements, to Bruce, to whom the delivered tbem up, and placed the crown upon his head. This crown is faid to have been made by one Conyers an Englifhman, who narrowly efcaped being punifhed for it by Edward.

The king of England received intelligence of all thefe proceedings with aftonifhment; and without delay fent a body of troops under the command of Aymer de Valence earl of Pembroke, to fupprefs the rebellion. Bruce omitted nothing for his defence. He laad always been confidered by his countrymen as a promifing accosiplithed young nobleman, but firmly attached to Edward's perfon and government; for which reafon be had not
been trufted by thofe independent patriots who joined Scot'and. Wallace. But their confidence was now gained by his rendering himfelf fo obnoxious to Edward, that no poffibility of a reconciliation was left; and he foon faw himfelf at the head of a fmall army. With thefe, who He is deconfifted of raw and anexperienced foldiers, Bruce form-feated at ed a camp at Methven near Perth, which laft was the Metbven. head-quarters of the enemy; but knowing the difadvantage under which he laboured from the inexperience of his men, he refolved to act on the defenfive. The Englifh general at laft fent Bruce a challenge to fighit him, which was accepted; but the day before the battle was to have been fought by agreement, the Scots were attacked by furprife, and totally defeated. Bruce behaved with the greateft valour, and had three horles killed under him. Being known by the flaughter which he made, John Mowbray, a man of great courage and refolution, rufhed on him, and catching hold of his horle's bridle, cried out, "I have hold of the newmade king !" but he was delivered by Chriftopher Seaton.

This difafter almoft gave the finifhing ftroke to the Is diftreffed affairs of Bruce. He now found himfelf deferted by after this a great part of his army. The Englifh had taken pri- defeat. foners great numbers of women whofe hufbands followed Bruce; and all thofe were now ordered, on pain of death, to accompany their hufbands. Thus was Bruce burdened with a number of ufelefs mouths, and found it hard to fubfift. The confequence was, that moft of his men departed with their families, fo that in a few days his army dxindled down to 500 . With thefe he retreated to Aberdeen, where he was met by his brother Sir Neil, his wife, and a number of other ladies, all of whom offered to follow his fortune through every difficulty. But, hovever heroic this behaviour might be, it put Bruce to fome inconvenience, as he could,fearcely procure fubfiftence; and therefore he perfuaded the ladies to retire to his caftle of Kildrommey, under the protection of Sir Neil Bruce and the earl of Athol. In the mean time the defertion among Bruce's troops continued, fo that now he had with him no more than 200 men ; and as winter was approaching, he refolved to go into Argylefhire, where Sir Neil Campbell's eftate lay, who had gone before to prepare for his reception. ${ }^{167}$ In his way thither he encountered incredible difficulties; Reaches and fome of his followers being cut off at a place called ArgyleDalry, the reft were fo difheartened, that they all for- great diffook him, excepting Sir Gilbert Hay, Sir James Dou-ficulty. glas, and a few domeftics. Bruce, however, kept up the fpirits of his little party by recounting to them the adventures of princes and patriots in circumftances fimilar to lis own. Having croffed Lochlomond in a fmall crazy boat, he was difcovered by his trufty friend the earl of Lenox, who had been proferibed in England, and now lived in retirement on his own eftate. The meeting Metts with between thefe friends was very affecting, and drew tears the earl of from the eyes of all prefent. Lenox, who had heard Lenox; nothing of Bruce's misfortunes, furnifhed him and his half famiflied atterdants with plenty of provifions: but being foon made fenfible that it was impoffible for them to live in a place where they were well known, and furrounded by enemies, Bruce refolved to feek out fome more fafe habitation. For this purpofe Sir Neil Campbell had already provided thipping; but our adventurers had fcarcely fet fail, when they voric purfued by a

## S C O

Sectland. large fquadron of the enemy's fleet. The bark which

169 wilh whom he fires to Can tise.
earried the earl of Lenox efcaped with the utmolt difficulty to Cantire, were Bruce was already landed: and, at their mecting, both agreed that thicy theold never afterwards be feparated while they remained alive.
In the mean time Edward having compromifed fome ditierences with his Englith fusiects, refumed his old project of entirely fubduing Scotland, and his intention now appears to have been to divide the lands of fuch as he fufpezted of didaffettion among his Englih followers. He ordere a protham ti a to be made, that all who had any title to the honour of knizhthood, cither by heritage or ellate, thould renair to IVeitminfter to reccive all military ornaments, from his royal wardrobe. As the prince of Wales came under this denomination, he was the firft who underwent dhc ceremony; which gave him a right to confer the like honour on the lons of above 300 of the chief nobility and gentry of England. The prince then repaired, at the head of this gallant train, to F.Jward; who received them, furroanded by his nobility, in the montolemn manner. The king then made a fpeech on the treachery of the Scots, whole entire deftruction he denounced. He declared his refolution of once move heading his army in perfon; and he defired, in cafe of his death, that his body might be carried to Scotiand, and not buried till fignal vengeance was taken on the perfidious nation. Having then ordered all prefent to join him within fifteen days, with their attenda its ard mi"tary equipages, he prepared for his journey into Scotlan il. He entered the country foon afier Bruce's defeat at Methven. The army was divided into two bodies; one commanded by the king himfelf, the other by the prince of Wales, and, under him, by the earls of Lancafter and Hereford, with orders to proceed northwards, and penetrate into the countries where the intere!t of Broce was ttrorgeft. As he paffed along, Elward caufed all that fell into his hands, whom he fo jeected of favouring Bruce's party, to be immediately esecuted. The bithop of Glafgow was the only exception to this barbarity; he was taken, but had his life fared on account of his function.

In the mean time, as the prince of W ales continued his march northwards, Bruce's queen began to be alarmed for her own fafery. She was advifed to take fanctuary at the 0 rine of St D thac in Rofsflire; but there the was made prifoner by William earl of Rufs, who was of the Englifh party. By Edward's order fhe was fent to London; her dat, hter, who was taken at the fame time, being thut up in a religious houfe. The directions for the entertainment of the queen are 11 lll preferved *. She was to be conveyed to the manor of Erullewick; to have a waiting woman and a maid ferrant, advanced in "fs, fidate, and of good converfation: a butler, two men fervants, and a foot-boy for her chamher, fober, not riotous, to mike her bed: three greybounds when fhe inclines to herst ; $v$-rifon, fifl, and the fairent houfe in the manor. In 1308, fhe was removed to another pifon; in 12 I 2 , the was removed to Windfor caitle, 20 flillings per week being allowed for her mai tenance. In 1313, the was committed to lionhef. ter calle, and No: nut fot at liverty till the clofe of that year.

The oulv fortrefs which Bruce pofkifid in Se t1 nd If s the canle of K 1 1/rommey ; and it was Coon belieged Voz. XVIII, Iu: II.
by the earls of Lancafter and Hereford. One Ofurn Seotland. treacheroully burned the r agazine; by which means the garrifon, dellitute of provifions, was obliged to limen. der at dilereion. 'The common toldiers were nanted; Sir Neil Bruce and the earl of Athol were ent prifo crs to Edward, who cauled them to be hruged on a gallows 50 feet high, and then beheaded and bunt. Hie countefs of Buchan, whu had crowaed king liobert, was taken prifoner; as was Lady Mary Bruce, the king's lifter.

About this time alfo many more of Bruce's party Adz rtur were put to death; among whem were Thomas andol P. 50 Alexaider Brace, two of the king's I motiers, and Joln Wallace, brotker to the celebzated Sir W:liam. Bruce himfelf, in the mean time, was in fuch i de. perate fituation, that it was thought he wever could ive more dillurbance; and it was even reported that ha: was dead. All his misfortuncs, however, could not intimidate him, nor prevent lis mediatin? a moit fevere revenge upon the dettro ers of his family. He firlt removed to the caltle of Dumbarton, where he was hofpitably received and entertained by Angus lord of Kint re; but, filpecting that he was not lafe haere, he failed in three duy, to Rachrin, a fmall illond on th Irifh coalt, where he fecured nimfelf effectually fron the purfuit of his enemies. It was during his $\cap$ y this ifland, that the report of his death was generalig propagated. Notwithereding this, hiv par'y increalil confiderably; and, even when he lande. 1 on this :itad he was attended by 320 mes . Having lised for fome time in this retreat, being apprebonive that the repurt of his death might be getierahly ciedited amon, hi, friends in Scotland, it was zefolved to aticmpt the tiv. prife of a fort held by tl e Englth under Sir Jom If:ftugs, on the ite of Irran. This was peformal wi:h 1 l fuccels by his two friends Domplas and Sir Robert Buy d, w 10 pui the greatelt purt of the garrito to the li:ord. The king, hearing of their fuccets, palled over into Ar- ran, ran; but, not knowing whele his people refided, is faid to have found them out by blowing a horn. Ife ilien fent a trully fervent, one Cutl 1 ert, into his own cuuntry of Carrick; with orders, it he fou id it well al cund to his caufe, to light a fire on a certain point near his caftle of I'u berry, whence it inght be difcerned in $A_{1}$ ran. L-uee and his party perceived the fignal, as they thought, and immediately put to fea. Their royage was thort; and as Bruce had now 400 men along with him, he re.olved immediately to act on the uffernive. His firft exploit $w s$ to furprife his own cafle of I un- a do ${ }^{1 \text { to }}$ bersy, which had been given, : long with Bruce's ef ate, aca d the to Lord Henry Peres: Him he drove out, aiong with the Iu hen s Englifh gi.rrifon; but, in t.ee mean time, he met with his it L... k. fervant Cuthbert, w'o give liin - 1 - fing intel igence. This man had met wih very little ene uragenn it on his landing in Scotland; in confequence of which he had not lighted the fire agreed upon as a fignal of his fuceds, that which Bruce had obf rved havifg heen kindled Ly accident. He allo told him, that the linslith ware in full porfellien of the country, and adviled his matler to be on his guard. Soon after this the king was joined by a lady of fortune, who brought along with $1+\frac{4}{}$ ? wartiors. By her he was firtt particularly i fo med of the mif rable fate of his family and relations; wlich, in flead of ditheartening, animated him the more witha defire of revenge. He did not immedi-

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S．ot＇zind，ately attempt any thing himfelf，Dut allowed Dou－ glas to attempt the recovery of his eftate of Duglas－

177 Douglas re overs his own cfiate． dale，as Bruce himfelf had recovered his in Carrick．In this expedition Douglas was joined by one Thomas Dick－ fon，a man of confiderable fortune，who gave him in－ telligence concerning the fate of the country．By his advice he kept himfelf private till Palm Sunday；when he and his followers with covered armour repaired to St Bride＇s church，where the Englifh were performing di－ vine fervice．The latter were furpriied，but made a brave defence；though，being overpowered by nambers，they were at laft obliged to yield．Douglas，without farther refiftance，took poffefion of his own cattle，which he bound well furnifhed with arms，provifions，and money． He deltroyed all that he could not carry with him，and alfo the callc itfelf，where he knew that he mult bave been befieged if he had kept it．

In 1357，the earl of Pembroke advanced into the weft of Scotland to encounter Bruce．The latter did
sךs The Eng－ I：fh twice deleated by Kobert． An．1307．

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Death of
Edward 1 not decline the combat；and Pembroke was defeated． Three days after this，Bruce defeated with great flaugh－ ter another Engliih general named Ralph de Monther－ mer，and obliged him to fly to the cafte of Ayr．Tiee king laid fiege to the caflic for fome time，but retired at the approach of fuccours from England．This year the Englilh performed nothing，except burning the mo－ naltery at Pailley．Edward，however，refolved tlill to execute his utmof vengeance on the Scots，though he tind long been retarded in his operations by a tedious and dangerous indifpofition．Bat now，fuppofing that his malady was decreafed fo far that he could laiely pro－ ceed on his march，he offered up the horfe－litter，in which he had hitherto been carried，in the cathedral church of Carlife；and，mounting on horfeback，proceeded on the way torsards Solway．He was fo weak，however，that he could auvance no farther than inx miles in feur days； after which he expired in fight of that country，which he had fo oftea devoted to deftruction．With his dying breath he gave orders that his body fhould accompany his army into Scotland，and remain unburied until the country was totally fubdued；but his fon，difregard－ ing this order，caufed it to be depofited in W户⿵冂⿱一口䒑寸 abbey．

The death of fuch an invetcrate cnemy to the Scot－ tifl name，couid not fail of raifing the firits of Bruce and his party；and the inactive and timid behaviour of his fon Edward II．contributed not a little to give them freh couraje．After having granted the guardian－ thip of Scotland to his favcurite Piers de Gavefton earl of Pembroke，whom his father had lately banifhed，he advanced to Cumnock on the frontiers of Ayr－Ahire， and then retreated into England；conferring the office of guardian of Scotland upon John de Bretagne earl of Richmond，a fortnight after he had befowed it on
180 Ruber de－ fecated in Galloway．

Gavefton．He was no fooner gone than Bruce inva－ ded Galloway．The inhabitants refufing to follew his flandard，he lisid wafte the country；but was defcated， and otliged to retire northwards by the guardian．In the niorth he oversan the country without oppofition； an． 3 foon began to move fouthwards again in order to remair his late difuracc．He was encountesed by Cummin earl of Buchan with an undifciplined tody of Englifh， whom he entircly defeute and difperfed．But alout this time he was feized with a grievous diftemper，which weakened him fo mach，that no hopes were left of his
recovery．In this enfeebled fituation，he was attacked Scothmit． by the earl of Buchan and John Mowbray an Englifh commander，who had affembled a body of troops in order to efface their late dithonour．The armies me 10 Bruce was too weak in his torn， to fupport himfelf，and therefore was held upon horfe－and reco－ back by two attendants：but he had the pleafure of fee－vers from a ing his enemies totally defeated，and purfued with great dineifere． flaughter for many miles；and it is reported，that the An． $\mathrm{I}_{3}$ cs． agitation of his firits on that day proved the means of curing him of his difeafe．This battle was fought on the 22d of May 1308.

The king of Scotiand now took revenge on his ene－ mies，after the manner of that barbarous age，by laying vatte the country of Buchan with fire and livord．His fucceifes bad fo raifed his character，that many of the Scots who had hitherto adhered to the Englith caufe， now came over to that of Robert．Edward，the king＇s brother，invaded Galloway，and defeated the inhabitarts of that country．John de St John，an Englifh com－ mander，with 1500 horfemen，attenpted to furprife Succefies him；but Edward Bruce having received timely infor－Bruce mation of his defigns，ordered the isiantry to entrench themfelves ftrongly，while he himfelf，with not more than 50 horfenen，well atmed，uuder cover of a thick mill，attacked his enemies，and put them to fight．Af． ter this he reduced all the fortreifes in the country，and totally expelled the Englith．About this tine alfo， Douglas，while roving about the hilly parts of Tweed－ dale，furprifed and made prifoners Thomas Rando！ph the King＇s nephew，and Alexander Stewart of Bonkill，who had litherto continued inimical to the interelts of Ro－ bert．Randolph was conducted to the king，but talked to him in a laaughty frain ：on which bis uncle fent him into clofe confinement．

The next exploit of Robert was sgaint the lord of The ${ }^{183}$ Lorn，a divifion of Argyle－fhire，It was this nobleman of Lem de－ who had reduced the king to fuch ffriits after his defeat teated，and at Methven；and Bruce now refolved to take ansple re his caft e vengc．Having entered the country，the hing arrived at a narrow pals，where the troops of Lorn lay in am－ bufh．This pafs had a high mountain on the one fide， and a precipice wafhed by the fea on the other；but ho－ bert having ordered Douglas to make a circuit，and gain the fummit of the mountain with part of the army，he entered himfelf with the relt．He was immediately at－ tacked；but Doughs with his men rufhed down the hill，and decided the viciory in favour of the king；who foon after took the caftle of Dunfaffi：age，the clief refi－ dence of this nobleman．

While Robert and his affociates were thius gairing the admiration of their countrymen by the exploins which they daily performed，the Englifh were fo un－ fettled and flucluating in their counfls，that their par－ ty knew not how to act．Edward fill inagined that Unfuccefs there was a poffibility of reconciling the Scots to hisful negocia－ government ；and for this purpofe be en：ployed Wil－tions for liam de Lambyrton，axchbifhop of St Audrcw＇s，who af－peace． ter having been taken prifoner，and carried from one place of confinement to another，had at laft macie fuch fubmifions，as wrocured firf his liberty，and then the confidence of Edward．This ecclefiaftic having taken a moft folemn oath of fidelity to Edward，now refolved to ingratiate himfelf，ty publifhing againf Robert and his adherents a fentence of excommunication，which had been

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Scolland. refolved on long bcfore. This, however, produced no effect; and the event was, that in 1309 , through the mediation of the king of France, Edward confented to a truce with the Scots. This pacific difpofition, however, lafted not loing. The truce was farcely concluded, when Edward charged the Scots with violating it, and fummoned his barons to mect him in arms at Neweafle : yet, probably being doubtful of the event of the war, he empowered Robert de Umfraville and three others, to conclude a new truce ; declaring, however, that he did this at the requeft of Philip king of France, as his deareit father and friend, but who was not to be confidered as the aliy of Scutland.

The new nerociations were foon interrupted. They were again renewed; and in the beginning of the year I 310 the truce was concluded, but entirely difregarded

185 Edward invades Scotland without fuccer: An. 13 ro. by the Scots. The progrefs of Bruce norv became very alarming to the Engifin, The town of Perth, a place at that time of great importance, was threatened; and to relieve it, Edward ordered a fiset to fail up the river Tay: he alfo commanded the eall of Uliter to affemble a body of troops at Dublin, and thence to invade Scotland; his own barons were oidered to meet him in arms at Berwick. About the end of September, he entered Scotland ; paffed from Roxburgh, through the forell of Selki:k, to Biggar ; thence he penetrated iato Renfrow ; and turning back by the way of Linlithgow, he retreated to Berwick, where he continued inactive for eight months.

During this invafion, Robert had carefully avoided a battle with the Englifh; well knowing, that an invafion undertaken in autumn would ruin the heary-armed cavalry, on which the Englith placed their chief dependence. His caufe was alio favoured by a fcarcity which prevailed at this time in Scotland; for as magazines and other refources of modern war were then unknown, the Englihh army were greatly retarded in their operations, and found it impoffible to fubfift in the country.

The fpirit of enterprife had now communicated itcelf to all ranks of people in Scotland. In 1311 , the caflie of Linlithgow was furprifed by a poor peafant, named Witiam Binnuck. The Englith Earrifon were fecure, and kept but a llight guard; of which Bimnock being informed, conccaled tight refolute men in a load of hay, which he had been employed to drive into the caftie. With theie, as foon as the gate was opened, he fell upon the feeble guard, and became na.a.ter of the place; which was difmantled by Rubert, as well as all the other cafles taken in the courfe of the war.

Edward now refolved to invade Scotland again; and for this purpofe ordered his army to afiemble at Foxburgh. Put Fobert, not contented with defending his own country, refolved in his turn to invade England. He accordingly entered that country, and cruelly ravaged the bifhopric of Durham. He returned loaded with fpoil, and laid fiege to Perth. After remaining fix weeks before that place, he raifed the fiege, but returned in a few days; and having provided fcaling ladders, approached the works with - chofen budy of infantry. In a dark night he made the attack; and having waded through the ditch, though the water ftood to his throat, he was the fecond man who reached the top of the walls. The town was then foon taken; af. ter which it was plundered and burnt, and the fortifica-
tions levelled with the
8th of Japuary 1312 .
Edward was now become averfe to the war, and renewed his ncgociations for a truce; but they fill ended in nothing. Robert again invaded England; burnt great Invades part of the city of Durham; and even threatened to be-England a liege Berwick, where the hing of England bad for the fecond time prefent, fixed his refidence. He next reduced the caftles with great of Butel, Dumfries, and Dalfisinton, with many other fortrefics. The caftle of Roxburgh, a place of the utmoft importance, next feil into his hands. The walis were fcaled while the garrilon was revelling on the eve of Lent. They retreated into the inner tower; but their governor, a Prenchman, having received a mortal wound, they capitulated.

Randulph, the king"s nephers, was now received isto favour, and becran to dittinguith himfelf in the caufe of lis country. He blockaded the caflie of Elinburgh fo The ${ }^{189}$ clofely, that all communication with the neighbouring of Edincountry was cut off. The place was commanded by burghtaone Leland, a knight of Gafcony ; but the garrifon ful ken by pecting his tidelity, confined him in a dungeon and chofe another commander in his fead. One William Frank prefented himfelf to Randolnh, and infornied him how the walls might be fcaled. Randolph himfelf, with 30 men, undertook to fcale the cafle walls at midnight. Frank was their guide, and firf afcended the walls; but before the whole party could reach the fummit, in alarm was given, the garriton ran to arms, and and a defperate combat enfued. The Englifh fought valiantly till their commander was killed; after which they threw down their arms. Leland, the former governor, was releafed from his confinement, and entcred into the Scottifh fervice.

In 13:3, King Fobert found the number of his friends An. 1313 . increaning with his fucceffes. He was now joined by the earl of Athol, who had lately obtained a grant of lands from Edward. This sear, through the mediation of France, the conferences for a truce were renewed. Thefe, however, nid not retard the military Robeit in operations of the Scots. Cumberland was inwaded and vades Eng1.:d wafte : the miferable inhabitants befought Edward's land, and protection ; who commended their fidelity, and defired reduces the them to defend themfives. In the mean time, Robert, ille of Man. leaving Cumberland, pafed over into the i月le of Man, which he totally reduced. Edward found great difficulties in zaifing the fupplies neceffary for carrying on the war ; but at laft overcame all thefe, and, in the beginning of the ) $\operatorname{car}^{1} 1_{1}^{1}$, was prepared to invade Scotland with a mikhty army. In March he ordered his hips ta be affembled for the iuvafion; invited to his affiltance Eth O'Connor, chief of the Irifh of Connaught, and 26 other Irith chiefs; fummoned them and his fuljeets in Ireland to attend his flandard, and gave the command of thefe ausiliaries to the earl of Uliter. His barons' were fummoned to meet him at Berwick on the isth of June ; and 22,200 foot foldiers, from the differer,t counties of England and Wales, were by proclamation required to affemble at Wark.

In the mean time, the fuccefles of the Scots conti-Bruce ennued. Edward Bruce liad reduced the caftles of Ru-ters into an therglen and Dundee, and laid fiege to the caftle of imprudent Stirling. The governor of the place agreed to fur- the giverrender, if he fl:ould not be relicved before tle $24^{\text {th }}$ of ner of StirJurie 1314 ; and to this Edward agrecd, without con- ling,

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$\underbrace{x^{2}}$fult g his bewtier. The king was highiy diepleated with this ra! treaty, which interrupted his own operations, allowed the Englith time to affemble their utmolt force, and at latt obilis ed hin either to raife the fiege or t) place all on the eicint ot a fingle battle. However, he re olved to abide by the agreement, and to meet the Englifh by the appointed day. Haring appointed a gene:al rexdezvous of his forces between Falkirk and Stirling, he found their number to amount to rather more than 30,000 , befides upwards of 15,000 of an undificiplined rabble that followed the camp. He determined to await the Englifl in a field which had the brook or burn of Bannock on the right, and Stirling on the left. His chief dread was the ftrength and number of the Enclifl cavalry, and thefe he took every method to oppoie. The banhs of the brook were fteep in many places, and the ground between it and Stirling was partly covered with wood. The king commanded many pits, of about a foot in breadth and two or three feet deep, to be dug in all places where cavalry could have acce.s. Frim the de cription gifen of them by the hittoriars of thofe times, there feem to have been many rows of them, with narrow intervals. They were careiully covered with bruthwood and fod, fo that they might eafi'y be overlooked by a rahh and impetuous enemy. It is fid by fome authors, that he allo made ule of caltrops, to annoy the horfes in the moft eifectual manner.

On the 23 d of l ne, the Scots received intelligence of the approach of F.dward, and prepared to decide the fate of their country. The front of their army extended from the brook called Banmockburn to the neighbourhood of St Ninians, ne.rly upon the line of the prefent turnpike-road from Stirling to Kilfyth; and the flone in which the king is fuid to have fixed his flandard is ftill to be feen. Robert commanded all his foldiers to fight on foot. He gave the command of the centre to Doughas, and Waiter the young fteward of Scotland; his bro.her Ediward had the command of the right wing, and R ndoich that of the left; the king himfelf taking charge of the referve, which confifted of the men of Argyle, Carrick, and the illanders. In a valley to the rear, faid to be to the weftward of a rifing grourd now called Gilles-kill, he plaond the baggage, and all the ufelcfs attendants on his army.

Randulph was commanded to be vigilant in prevent-
and not diminith the glory of Randolph and his men by tharing their victory.

Robert was in the front of the line when the van- 195 guard of the Englith appeared. He was meanly drel- An En- tink knig jed, with a crown above his helmet, and a batte-axe ink leet io his hand. Henry de Bobun, an Englih knight, arm-fingle comed cap-a-pee, rode forward to encounter him. Robert batby King did not decline the combat, and ftruck his antagonift fo Robert. violently with his battle-axe, that he is faid to have cleft him down to the chin; after which the Englifh vanguard retreated in confufion. The Scottih generals are faid to have blamed their king for his rafhnefs in thus encountering Bohun; and he himfelf, confcious of the juitice of their charge, replied only, "I have broken my good battle-axe."

On Alonday the $24^{\text {th }}$ of June, the whole Englif $\begin{gathered}196 \\ \text { Comman }\end{gathered}$ army moved on to the attack. The van, confifling of dommanarchers and lancemen, was commanded by Gilbert de EnglifharClare earl of Gloucefter, nephew to the Englifh king, mj. and Humphry de Bohun conftable of England; but the ground was fo narrow, that the relt of the army had not fufficient soom to extend ittelf; fo that it appeared to the Scots as confifting of one great compact body. The main body was brought up by Edward in perfon, attended by Aymer de Valence earl of Pembroke, and Sir Giles d'Argentine, two experienced commanders. Maurice abbot of Inchaffray, placing himfeli on an eminence, celebrated mafs in the fight of the Scottilh army. He then paffed along the front, barefooted, with a crucifix in his hands, and in few words exhorted the Scots to fight for their rights and liberty. The Scots fell down on their knees; which being perceived by Edward, he cried out, "They yield! See, they implore mercy." "They do," anfisered Umfraville, one of his commanders, "they do implore mercy, but net from us. On that field they will be victorious or die."

As both partics were violently exafperated againft The Eng each other, the engagement began with great fury. lifh envireis The king of Scotland, perceivirg that his troops nered cated, grievoully annoyed by the Englihh archers, ordered Sir ${ }^{24}$ th Jane Robert Keith the marifchal, with a few armed horfemen, ${ }^{134}$. to make a circuit and attack the archers in flank. This was inflantly accomplifhed; and as the weapons of the archers were ufelefs in a clofe encounter, they could make very little refillance, while their flight fpread diforder through the whole arny.

Robert now advanced with the referve: the whole Englifh army was in the utmolt confufion ; for the defeat of the arehers had decided the victory in favour of the Scots. The young and gallant earl of Gloucefter attempted to rally the fugitives, but was thrown from his horfe, and cut in pieces, which increafed the general confufion. At this critical moment, the numerous attendants on the Scottifh camp, prompted by curiofity or the defire of tlur der, iffied from thair retirement. The Engifh mi nok them for a body of frelh troops coming to the . fillance of their enemies, and tled with preciptation on ail files. M ny fought refuge among the rock in the reiphboartiond of Siirling citle, a.d niany we dromned in the river. Pentroke n:d Sis: Gles d'Argewine had never qui"e ! Ldward dering



## S C O [ 621 ] S C O

Seotland. gentine refufed to fly. He was a man of great valuur, and had a high reputation in Scotland. According to the common opimion, the three mot eminent worthies in that age were the emperor Henry of Luxemburg, Robert Bruce, and Giles d'Argentine. He is faid to have thrice encountered two Saracen warriors in Paleftine, and to have killed them both. His valour now availed him but little; for rufhing into the midat of the Scuts army, he was inflantly cut in pieces. Dcuglos, with 60 horfemen, purfued Edward clofely. At the Torwood he met Sir Lawrence Abernethy, who was hatiening to the Englih rendezvous with twenty horiemen. The latter foon aban foned the cauf of the val.quithed, and joined Douglas in the purfuit of Edward, who lled to Linlithgow. He had fcarcely arrived there, when he was alarmed by the approach of the Scots, and again obliged to tly. Douglas and thernethy followed him with the greateft affiduity; but, notwithfanding their utmoit efforts, Edward got fafe to Dunbar, where he was received by the earl of March, who protected him till he could be conveyed by fea to England.

Such was the decifive battle of Bannockburn, the greateft defeat which the Engliih ever fuitained from the Scots. On the fide of the latter no perfons of note were flain, excepting Sir William Vipont, and Sir Walter Rofs the favourite of Edward Bruce; and fo grievouliy was Edward athlicted by the death of this man, that he exclaimed, "O that this day's work were undone, fo Rofs had not died!" On the Englifh fide were flain 27 barons and bannerets, and 22 take: prifoners; of knights there were killed 42 , and 60 taken prioners ; of elquires there fell 700 ; but the number of the common men who were kilied or taken was never afcertained. The Wclh who had ferved in the Englith army were fcattered over the country, and cruelly butchered by the Scottilh pealants. The Englih, who had taken refuge among the rocks in the neighbourhood of Stirling, furrendered at difcretion: the cafle was furrendered, and the privy feal of England fell into the hands of the king of Scots. The fpoils of the Englifh camp were immenfe, and enfiched the conquerors, along with the ranfom of many noble prifoners who fell into their hands. Robert fhowed much generofity in bis treatment of the prifoners who fell to his Chare. He fet at liberty Ralph de Monthermer, and S'r Marmaduke Twe ge, two officers of high rank, without ranfom ; and by humane and generous offices alieviated the misfortune of the relf. The dead bodies of the earl of Glouceller and the lord Clisford were fent to Eingland, that they might be interred with the ufual folemnity. There was one Ballon, a Carmelite friar and poet, whom Edward is faid to have b:aught with him in his train to be feectator of his arkievem_nts, and to record his triumphs. Bation was mante prifoner, and obliged to celebrate the victory of fiviert over the Englifh. Twis he did in wretclied Latin rhymes; whi ' however, procured his libesty. After the battle of B.nnockburn, the earl of Hereford retreated in the caftle of Bothweil, where he was befieged by E.wark Bruce, and fuon obliged to farrond.r. He was ex an ed for the v"e, fintereand danall-tr- of the king, the young earl of Mir, and the bill sp - Iagow.

Ireterror ff the E.plith afor the defeat of Pan-


 der contribution. Thence they proceeded to liict mond, $\underbrace{}_{z e s}$ laid Appieby and fome other towns in afhes, and re- Irr als of turned home loaded with plunder. Edward fummuned the se is a parliament at York, in order to concert means for irto thas the public fecurity; and appointed the earl of Pembroke, $1 . . d$. formerly the guardian of Scotland, to be guardian of the country between the Trent and the Tweed. Robert, however, fent ami alfidors to treat for a peace; but the Scots werc too much elated with their good fortune to make conceffions, and the Englif1 were not yet fulliciently humbled to yield to all their demands. The ravages of war were again renewed : the Scots continued their incurfiuns into England, andlevied contributions in different places.

In 1315 , the Englith affairs feemed a little to revive The Scots, indeed, plundered Durlam and Harilepool, but they were repulied from Carlifle, and failed in an at tempt on Berwick. The Irin of Uliter, oppreffed by Irelard. the Englifh government, implored the affitance of Robert, and offered to acknowledge his brother lidward as their fovereign ; who accordingly landed at Carrickfergus on the 25 th of May ${ }^{1} 315$, with 6000 men.This was an enterprife evidently beyond the power of Scotland to accomplifh, and this could not but be pereeived by Robert. There were, however, motives which induced him to confent. The offer of a crown, though eser fo vifionary, inflamed the ambition of Edward Bruce, whofe impetuous valour difre $\mathrm{e}_{5}$ arded difficulties, however great. It might have been deemed ungenerous, and perhaps would not bave been politic or fafe, to have rejected the propofals of the Irifh for the advancement of his brother, to whom the king owed more than he could repay. Befides, the invafion of Ireland feemed a proper expodient for dividing the Linglifh forces. The event proved unfortunate. Edward, after He is \% performaing and fuffering more thin n could almort 1 ave fat day: peen erpected from hugan nature, was at lun defeated kr ed. and killed by the Englifh, as is related under the arcicle Ireland, $\mathrm{N}^{0} \mathrm{t}^{2}$.

The king bimfelf hed gone over into Ireland, in order to affit his brother in attemptisg the tubjeclion of that country; and during his abfence the Etiglifh had made feveral attempts to difurb the tranquillity of Scotland. The earl of Arundel invaded the forelt of Jedburgh with a numerous ammy ; but being drawn into an $f$ the Ens. amulfade by Dotglas, lee was defeated with great luis, lifh on \$o t. Ediuund de Cailaud, a knikht of Gafcony and greer-land. nor of Berwick, invaded and walted Teriotd 1. ; Lat while he was returning liome loaded with fpoil, he was atticke l. defened, and killed by Dourlas. By fia the Englith ins 'ed Scotland, and anclioted off I: ieskeilhing in the fith of Forth, where they foun att landed. Five hundred men, under the comno.nd of the earl of life and the lieriff of that county, attempted to op ofe their landiv!, but were intimidated by the rumber of their enemies. William Sinclair b hop of Durikeid haprened to meet the fugitives : and having b. his ref roaches obliged them to rally, he led lisem on again to the clore, and drove the Fothih to their 11 ps wit! an le at lel is. Tor this expluit liobert con-
 10. renembeal by his c nte men on t : t. $t$ In 1.317 , alter King Robert had retumas an is in sher

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## S C O [ 622 ]

Seor +1. . XIII.) commanding a two years truce between England and Scotland, under pain of excommunication. Two cardinals were difpatched into Britain to make known his commands; and they were privately empowered to inflict the higheit fpiritual cenfures on Robert Bruce, or whomfoever elfe they thought proper. About the begizning of September ${ }^{1} 117$, two meffengers were Seta to Robert by the cardinals. The king gave them a gracious reception; and after confulting with his barons, reurned for anfwer, that he very much defired a good and laiting peace, either by the mediation of the cardinals, or by any other means. He allowed the open letters from the pope, which recommended peace, to be read in his prelence, and liftened to them with due refpect. But he would not receive the fealed letters addrefied to Kobert Bruce governor of Scotland, alleging, that there might be many of his barons whofe names were Robort Bruce, and that thefe barons might probably have fome finare in the government. Unlefs, therefore, the letlers were addrefled to him as king of Scolland, he could not receive them without advice of his parliament, which he promifed immediately to affemble on the occainon. The meffengers attempted to apologife for the omiffion of the title of King* "The holy church was not wont," they faid, "during the dependence of a controvelfy, to write or fay any thing which
might be interpreted as prejudicial to the claims of either of the contending parises." "Since then," anfwered the king, " my piritual father and my holy mother would not prejadice the caufe of my adverfary by befowing on me the appellation of king during the dependence of the controverfy, they ought not to have prejudiced my caufe by withdrawing that appellation from me. I am in poffeffion of the kingdom of Scotland; all my people call me king; and foreign princes addrefs me under that title; but it feems that my parents are partial to their Englifi fon. Had you prefumed to prefent letters with fuch an addrefs to any other fovere:gn prince, you might perhaps have been enfwered in a harfher ftyle; but I reverence you as the menengers of the holy fee."

The meffengers, quite abafhed with this reply, chansed the difcourfe, and requefled the king that he would confent to a temporary ceflation of holtilitics; but to this he declared, that he never would confent, while the Englifh daily invaded and plundered his people. His counfellors, however, informed the meffengers, that if the letters had been addreffed to the ki"g of Sco:s, the negociations would inftantly have been opened. This difrefpectful omiffion they imputed to the intrigues of the Englih at the court of Rome, hinting at the fame time that they had received this intelligence from $\Lambda$ vignon.

When the mencngers had informed the cardinals of thefe proceedings, the latter determined to proclaim the papal truce in Scotland; in which hazardous office they employed Adam Newton, guardian of the monaftery of Minorites at Perwick, who was charged with leticrs to the clergy of Scotland, particularly to the bifhop of St Andrew's. The monk found the kings, encamped with his army in a wood near Old Cambus, making preparations for affaulting Berwick. Perfonal accels was denied to the king; but the monk, in obedience t, his mallers, proclaimed the truce by the authotity of the pope. Tl.e king fent hims for anfwer, that
he would liken to no bulls, till he was treated as king Scotland. of Scotland, and had made himfelf mafter of Berwick.

The poor noonk, terrified at this anfwer, requetted Which is either a life conduct to Berwick, or permifion to pafs difiegarded into Scotland, and deliver his letiers to the Scotilih by the king. clergy. Both were refufed; and he was commanded to leave the country without lofs of time. He fet out for Berwick; but in his way thither was attacked by robbers, or fome who pretended to be fo. By them he was ftripped and robbed of all his parchments, together with his letters and inftructions; the robbers alfo, it is faid, tore the pope's bull, without any regard to its fanctity.

In 1318 , King Robert proceeded in his enterprife ${ }_{\text {Berwick }}^{203}$ againft Berwick, but refolted to employ artifice as well beffeged as force in the reduction of it. A citizen of Berwick, and taken by name Spalding, having been ill ufed by the governor, by the meditated revenge; and wrote a letter to a Scottilh ${ }^{\text {Scors, }}$ lord, whofe relation he had married, offering on a certain night to betray the poft where he kept guard. The nobleman communicated this important intelligence to the king. "You did well," faid Robert, " in making me your confidant; for if you had told this either to Randolph or Douglas, you would have offended the one whom you did not truft: Both of them, however, fhall aid you in the execution of the enterprile." The king then commanded him to repair to a certain place with a body of troops; to which place he alfo gave feparate orders to Douglas and Randolph to repair at the fame hour, each with a body of troops under his command. The forces, thus cautioully affembled, marched to Berwiek, and, affilled by Spalding, fcaled the walls, making themfelves mafters of the town in a few hours. The garrifon of the caltle, perceiving that the number of Scots was but fmall, made a defperate fally with the men who had fled into the eafle from the town; but, after an obftinate conflict, they were defeated and driven back, chitfly by the extraordinary valour of a young knight named Sir William Neith of Galfon.- This happened on the 28th of March 1318.

King Pobert no fooner heard of the fuccefs of his who inforces acrainft the town, that he hattened to lay fiege to vade Engthe callie of Berwick. This was foon obliged to capi- preat iuctulate; after which the Scots entered Northumherland, cefe. and took the calles of Wark, Harbottle, and Mitford. In May, they again invaded England, and penetrated into Sorklhire. In their progrefs they burnt the towns of Northallerton, Boroughbridge, Scarborough, and Skipton in Craven, forcing the inhabitants of Rippon to redeem themfelves by paying 1000 merks: after which they returned to Scotland with much booty; and, as an Englith hilorian exprefles it, "driving their prifoners before them like flocks of fheep."

This year the interpofition of the pope was obtained againlt Robert, with a view to intimidate the Scottifh nation; and the two cardinals refiding in England were commanded to excommunicate Robert Bruce and his adherents, on account of his treatment of the meffengers of the holy fee, and his affault of Berwick, after a truce had been proclaimed by the papal authority. - This fen-King Ro tence $\mathrm{k} s \mathrm{~s}$ accordingly put in execution, thongh Robert bers exhad certainly been excommunicated once, if not oftener commusibot ie. Mefengers were fent fiom Scotland to Rome, athed by in order to procure a reverfal of the fentence; but Ed- the Pope. ward difatchod the bifhop of Hereford, and Hugh d'Efpencer

## s c o <br> [ 623 ] <br> S C O

Sootland. d'Efpencer the Elder, 10 countcract this negociation, informing the his holinefs at the fame time of certain intercepted letters which had been written from Avignon to Scotland; upen which the pope ordered all the Scots refiding at Asignon, and all of that place who had correfonded with Scotland, to be taken into cultody.

The moft remarkable tramfaction of this ycar, however, was the defeat and death of Edward Bruce in Ireland; of which an account is given under the article Ireland, $\mathrm{N}^{\circ} 42$. His body was quartered, and diftributed for a public \{pectacle over Ireland; and his head was prefented to Edward by Jobn lord Bermingham the commander of the Englifh army ; in return for which fervice, he was rewarded with the title of earl of Lowth.

In the mean time Edward, who had fummoned a parliment to meet at Lincoln, was obliged to prorogue it on account of the Scottifh invafion, and to affemble an army at York for the defence of his country. At Michaelmas it was determined, in a pariament held at London, that every city and torm in England hould Surnifh a certain proportion of men completely armed. Thus a conffderable body of troops was foun raifed; but, when they affembled at York, their party animo. fities and mutual diltruft rofe to fuch an height, that it was found neccifary to fend them back to their habitations.

In 1319 , Ed ward, hasing fueceeded fo well in his negociations with the court of Rome, refolved to make fimilar aitempts with other powers to the prejudice of the Scottifh nation. Accordingly he reqnefted the count of Flanders to prohibit the Scots from eatering his country: but to this requeft he received the following remarkable reply: "Flanders is the common country of all men ; I cannot prohibit any merchants

211 from traficking thither, for fuch prohibition would prove the ruin of my peonie." Finding himfelf baffled in this attempt, the Englifh monarch once more determined to have recourle to war; and with this vier commanded his army to afemble at Newcafte upon Tjne, on the 24 th of July 1319 : but before he proceeded, he requefted the prayers of the clergy for the fuccefs of his eve lition; and, to render their prayers the more effectual, lie at the fame time demanded from them a great fum of money by way of loan.

Every thing being now in readinefs, the Enclim

Walter the fleward of Scotland. This nobleman had long apirehended an attack from the Englith, and had taken every means of defence in his power. The enemy, however, confiding in their numbers, made a general affult; but were repulfed on the ,th of Scplember, after a long and obffinate contett. 'Their next attempt tras on the fide towards the river. At that time the wallis of Berrick were of an inconfiderable height; and it was propofed tu bring a veffel ciufe to them, from whence the traops might enter by a draw-bridge let down from the maft. But the Scots anrecyed the affailants fo much, that they could not bring this veffel within the proper diftance; atid at the ebb of the tide it gound-d, and was hurnt by the belieged.-The Friglifh his ${ }^{3}$ then recour'e to a newly inventid engine which they ealled a $f w$, but for what reafon is unksown. In manv narticulars it refombed the teftudo arsetaria of the anciens. It appears to have been a large fabric
compofed of timber, tun … -11 wurful. having ilacran ungh in it, and in height furpaiing the wall of the town. It was moved upon ulicels, and ferved for the double purpole of conducting the mincrs to the foot of the wall, and armed nien to the form. This machine "is counteracted by one crnifucied by Jolon Crab, a Flemith enginecr in the Scots fervice. This was a hind of moveable crane, wherehy great fones migla te railed on high, and then let fail upon the enemy. The Englidh made a genctal alfult on the quarter towards the fea, as well as on the land fide; fo the the garrifon, exhaufted by continual fatigue, could farce maintain their pofls. The great engine moved on to the walls; and, though fones were inceffutitly difcharged againit it from the crane, their effect was fo fmall, that all hope of preferwing Berwick was loft. At length a huge Deftroved fone ftruck it with fuch force, that the heams gave by the way, and the Scots pouring down combuftibles upon it, Scots, it was reduced to athes. The Englith, however, fill continued the attack. The fteward, with a referve of 100 men, went from poft to pott, relieving thofe who were wounded or unfit for combat. One foldier of the referve only remained with him when an alarn was given that the Englifh had burnt a barrier at the port called St Nary's, poffeled themfelves of the drawbridge, and fired the gate. The fteward haftened thither, called dorn the guard from the rampart, ordered the gate to be fet open, and rufhed out upon the enemy. A defperate combat enfued, and continued till the clofe of the day, when the Englith commanders withdrev their trocps.

Notwithlanding this brave defence, it was evident who 215 that the town could not hold out long without a fpeedy vade Ens? relief; and Robert could not, with any probability of land. fuccefs, attack the fortifed camp of the Englith. He therefore cetermined to make a powerful diverfion in England, in order to oblige Edward to abandon the undertaking. By order of the king, 15,000 men entered England by the weitern marches. They had concerted a plan for carrying off the queen of England from her refidence near York; but being difappointed in this altempt, they laid wafte York thise. The archbifhop of York hattily collected a rumerous body of commons and ecclefaftics, with whom lee cncountered the Szots at Mitton, near Borotighbridge, in the north riding of Iori.ftire. The Fits!fh were routed; $3=00$ were left clead on the field, and great part of thoie who fled perifhed in the river Swale. In this action 300 ecclenafics loit their lives. The news of this fuccefs-fioge of Berfal inruad alarmed the befiegers of Berwick. The wiknaifech barens whefe cfates lay to the fouthward remote from the Scottilh depredations were enger for continuing the fiege. Hat they were oppofed by tho'e of the north; who were no lefs eager to abandon the enterprife, and return to the defence of their own country. With them the earl of Lancafter concurred in opinion; and underftanding tliat his favourite mancr of Pontefract was expofed to the ravages of the Scots, departed with all his adherents. Edward on thic, drew off the remainder of his army, and attempted to intercept Randolph and Douklas; bat they eluded him, and retumed in fafety to Scotland.

The unfuscefful event of this latt attempt induced F.tward Cerioufly to think of peace; and aecordingly a truce between the two nations was concluded on the

## S C O $\quad[624] \quad \mathrm{S}$ C O

 (2) the Scots mrue $u l i$ of in addrefling a manifefto to thic pope in juthitation of their caule. This was drawn up in a firin manner, and made a very confiderable alteration in the councils of Ronse. The pope, foreleeins that Robert would not be terrifed into fubmiffions, ordered Edward to make peace with him in the beft manner he could. A ne ociation was accordingly fet on foot, which foon termineted ineffectually; the truce

217 Moland was not renewed, and in 1322 a mutual invafion took place. The Scots penctrated into Lancafhire by the weftem marches; and, afier plandering the country, returned home with an extraordinary booty ; while Edward made great preparations for an expedition into Scotland, which took place in Augutt the fame year. In this, however, he was not attended with fuccefs. Robert had caufed all the cattle to be driven off, and all the effects of any value to be removed from Lothian and the Merfe: fixing his camp at Culrofs, on the north fide of the fith of Forth. His orders for removing the cattle were fo punctually obeyed, that according to common tradition, the only prey ishich fell into the hands of the Engliih was a lame bull at Tranent in Eaft Lothian. Edward, however, ftill proceeded, and penetrated as far as Edinburgh, but without any hopes of fubduing the kingdom. His provilions being confumed, many of his foldiers perilhed for want ; and he was obliged at laft to retire without having feen an enemy. On their return, his foldiers burnt the abbeys of Holyrood, Melrofs, Dryburgh, \&ic. killed many of the monks, and committed many facrileges : but when they returned to their own country, and began again to enjoy a plentiful living, they indulged themfelves in fuch ex-

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England with him were defroyed either by hunger or gluttony.

No fooner were the Englifh retired than they were purfued by the Scots, who laid fiege to the caftle of Norharn. Edward lay at the abbey of Biland in Yorkfhire, with a body of troops advantageoully pofted in the neighbourhood. The Scots, invited, as is faid, by fome traitors about the king's perfon, attempted to furprife him; and it was with the utmoft difficulty that he made his efcape to York, abandoning all his baggage and treafure to the enemy. The Englifh camp was firppofed to be acceffible only by a narrow pafs, but Douglas undertook to force it, and Randolph prefented himfelf as a volunteer in this dangerous fervice under his friend Douglas. The Highlanders and men of the Illes climbed the precipice on which the Engliih camp flood, and the enemy, were driven out with great lofs. The Scots purlued them to the very gates of York, wafted the country without controul, and returned home unmoletted.

Edsard, difieartened by repeated loffes, agreed to a celfition of asms "with the men of Scotland who were engaged in war with him." But the king of Scotland would not conient to it in that form ; however, he gave his confent, on the proper form being employed, to which Edward now nade no obiedion. This treaty was concluded on the $30: \mathrm{b}$ of March 1323 , and was to endure until the 12 thi of June 1336 . It was agreed, that, during the continuance of it, no new fortreffes
flould be erected in Cumberland, to the north of the Tyuc, or in the counties of Berwich, Poaburgh, or Dumires; and by a very fingular article it ras provid$e d$, that " Bruce and the people of Scotland migit procure abfolution from the pope; but in cafe there was no peace concluded beiore the expiration of the truce, that the ientence of excommunication fhould revive." The treaty was ratified by Robert, under the flyle of the king of Sectland,, h June $I_{3} 23$.

The next care of Robert was to reconcile himfelf to the church, and to obtain from the pope the tille of $k$ ing, which had been fo long denied him; and this, thougha not without great difficulty, was at laft obtaincd. This year a fon was born to the king of Scotland at Dunfermline, and named David. 'The court-poets of the time foretold, that this infant would one day rival Birth of his father's fame, and prove victorious over the Eng-Bruce. lifh. But fcarcely had this future hero come into the world, when a rival began to make his appearance. John Baliol, the unfortunate king of Scotland, had long been dead; but left a fon named Edward, heir of his appearance pretenfions to the crown. The young prince had re-at the court fided on his paternal eitate in Normandy, neglected and of England. forgotten; but in 1324 he was called to the court of An. 1324 . England, for the purpofe, undoubtedly, of fetting him up as a rival to young David Bruce, in cale his father, now broken with fatigues, fhould die in a fhort time. The negociations for peace, however, ftill went on; but the commiffioners appointed for this purpofe made little progrefs, by reafon of demands for feudal fovereignty flill made by the Englifh. The reconciliation with the church was alfo broken off, by reafon of the Scots keeping poffefion of Berwick. This had been taken during the papal truce; and Robert thought proper ftill to lie under the fentence of excommunication rather than to part with fuch an important fortrefs.

In the beginning of the year 1327 , Edward II. was depofed, and fucceeded by his fon Edward III. then in his $15^{\text {th }}$ year. He renewed the negociations for peace, and ratified the truce which his father had made; but hearing that the Scots had refolved to invade England if a peace was not immediately concluded, he fummoned his barons to meet him in arms at Newcattle, and fortified York.- We are not certainly informed of the reafons which induced the Scots at this time to difregard the truce; however, it is certain, that on the I $5^{\text {th }}$ of June 327 , Douglas and Randolph invaded England by the weftern marches, with an army of 20,000 horlemen. Againt them Edward III. led an vade inarmy, confinting, at the loweft calculation, of 30,000 men, who affumbled at Durham on the 13 th of July. The Scots proceeded with the utmoft cruelty, burning and deflroying every thing as they went along; and on the 18 th of the fame month, the Englith difcovered them by the fmoke and flames which marked their progrefs. They marched forward in order of battle towards the quartor where the fnoke was perceived; but, meeting with no enemy for two days, they concluded that the Scots had retired. Difencumbering them. themfelves then of their heavy baggage, they refolved by a forced march to reach the river Tyne, and, by pufting themfelves on the north bank of that river, to intercept the Scots on their retum. On the 20th of July, the cavalry having left the infantry belsind, croffcd

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## S C O [ 62弓 ] S C O

Scotand. the river at Haidon: but before the reft of the army could come up, the river was fo fwelled by fudden rains, that it could no longer be forded; and thus the troops remained divided for \{everal days, without any accommodation for quarters, and in the greateit want of provifions and forage. The foldiers now began to nurmur ; and it was refolved again to proceed fouthwards. Isobliged. The king proclaimed a reward of lands, to the value of to offer a reward for ditcovering where they are. 1ocl. yearly for life, to the perfon who thould firt difcover the enemy " on dry ground, where they might. be attacked;" and many knights and efquires fwam acrofs the river on this ftrange errand. The army con-

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Defperate attempt of Douglas to carry off
the king of England.
tinued its march for three days without any news of the Scots; but on the fourth day, certain accounts of them were brougit by an efquire, Thomas Rokefby : who reported, that "the Scots had made him prifoner; but that their leaders, underflanding his bufinefs, had fet him at liberty ; faying, that they had remained for eight days on the fame ground, as ignorant of the motions of the Englith as the Englifh were of theirs, and that they were delirous and ready to combat." With this man for their guide, the Englifh foon came in view of the Scots. They were advantageoufly pofted on a rifing ground, having the river Were in front, and their flanks lecured by rocks and precipices. The Englifh difmounted and advanced, hoping to allure the Scots from their ftrong poft; but in vain. Edward then fent a herald to Randolph and Douglas, with a meffage in the ftyle of chivalry: "Either," fays he, "fuffer me to pafs the river, and leave me room for ranging my forces; or do you pafs the river, and I will leave you room to range yours ; and thus fhall we fight on equal terms." To this the Scottith commanders anfwered, "We will do neither. On our road hither we have burnt and fpoiled the country; and here we are fixed while to us it feems good; and if the king of England is effended, let him come over and chaftife us."

The armies continued in fight of each other for two days; after which the Englith, underftanding that their enemies were diftreffed for provifions, refolved to maintsin a clofe blockade, and to reduce them by famine. Next day, however, they were furprifed to find that the Scots had fecretly decamped, and taken poft two miles up the river in ground fill ftronger, and of more difficult accefs, amidf a great wood. The Englifh encamped oppofite to them near Stanhope park. At midnight Douglas undertook a moft defperate enterprife, refembling thofe of the ancient heroes. With 200 horfemen he approached the Englifh camp, and entered it under the guife of a cbief commander calling the rounds. Having thus eluded the centinels, he paffed on to the royal quariers, overthrew every thing that oppofed him, and furioully affaulted the king's tent. The domeftics of Edward defperately defended their mafter; and hischaplain, with many others of his houfchold, were flain. The king himfelf, however, efcaped ; and Douglas, difappointed of his prey, rufhed through the enemy, and effected a retreat with inconfiderable lofs.- The following day, the Englifh learned from a prifoner, that orders had been iffued in the Scottifh camp for all men to hold thenitelves in readinefs that evening to follow the banner of Douglas: on which, appreliending an attack in the light, they prepared for battle, lighting great fire, and keeping a fric? watch; but in the morning, they rece informed by two trumpeters whom they
had taken prifoners, that the Scots had decamped be- Suotland. fore nidnight, and werc returning to their own country. This report could fearcely be credited, and the rie Scol army remained for fome hours in order of battle; but decamp, at length fome fcouts laving croffed the river, returned and retuin with certain intelligerice that the Scottifh camp was otheir totally deferted : which when the young king of Eng- own coun land was certainly informed of, he is faid to have burt ry. into tears. Every preparation had been made by him for oppofing an enemy, and auxiliaries had even been procured at a molt cnormous expence from Hainault. Thefe auxiliaries confifted of heavy-armed cavalry; and they were now fo much worn out, that they could fcarcely move. Their horfes were all dead, or had become unferviceable, in a campaign of three weeks; fo that they were obliged to procure horics to convey them felves to the fouth of England. Edward having refted at Durham for fome days, nisrched to York, where be difbanded his army. Barbour, a Scots hillorian, relate, that there was a morafs in the rear of the Scottifh camp, which he calls the two-mile morafs; that the Scots made a way over it with brufhwood, removing it as they went along, that the Englifh might not purlue them by the fame way. The Engliih hiftorians are filled with defcriptions of the ftrange appearance of the deferted camp of the Scots. They found there a number of $\mathbb{k}$ ins ftretched between ftakes, which ferved for kettles to boil their meat ; and for bread, each foldier carried along with him a bag of oatmeal, of which he made eakes, toafting them upon thin iron plates, which are fuppofed to have been part of their armour.

On the return of Douglas and Randolph, the king led his army againft the eaftern borders, and befieged the cafle of Norham. But in 1328 , Edward, wearied out with continual loffes and difappointments, confented to a perpetual peace between the two king- ${ }_{228}$ doms on the following conditions. 1. The flone on The renty which the kings of Scotland were wont to fit at the time of Northof their coronation, fhall be reftored to the Scots. 2. The ampton. king of England engages to employ his good offices at An.1328, the papal court for obtaining a revocation of all fpiritual procefles depending before the holy fee againft the king of Scots, or againlt his kingdom or fubjects. 3. For thefe caufes, and in order to make reparation for the ravages committed in England by the Scots, the king of Scots fhall pay 30,000 merks to the king of England. 4. Reftitution thall be made of the poffeffions belonging to ecclefiaftics in either kingdom, whereof they may have been deprived during the avar. 5. But there flall not be any rellitution made of inheritances which have fallen into the hands of the king of England or of the king of Scots, by reafon of the war between the two nations, or through the forfeiture of former poffeffors. 6. Johanna, fifler of the king of England, fhall be given in marriage to David, the fon and heir to the king of Scots. 7. The king of Scots thall provide the princefs Johanna in a juinture of 20001 . yearly, fecured on lands and rents, according to a rcafonable eflimation. 8. If either of the parties thall fail in performing thefe conditions, he flall pay 2000 pounds of filver to the papal treafury. The marriage of the infant prince was celebrated on the 12 th of Iuly 1328.

On the gth of June 1329 died Robert Bruce, un-King Roqueftionably the greateft of all the Scottifn monarchs. bert diee, His death feems to liave been occafioned by the excef- An. 1329.

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Scolland. five fatigues of military fervice; and his difeafe, called by the hittorians of thofe times a leprofy, was probably an inveterate fusu:v, occafioned by his way of living. He died at the age of 55 . He was married to Ilabella, daughter of Donald the tenth earl of Marr ; by whom he lad a daughter named Margery, married to Waker the ftewaid of Scotland; whole hurband died in 1,326 . The fecond wife of Robert was Elizabeth, the daughter of Aymer de Burgh earl of Uliter. By ter he had a fon, David II.; a daughter named Margaret, married to William earl of Sutherland ; another, named Matilda, married to an efquire named Thomas Iiaac; and Elizabcth, married to Sir Walter Oliphant of Gafk. He had alfo a natural fon named Robert.

That King Robert I. was a man of unqueftionable virtue and humanity, as weil as unequalled in the know-

230 Account of a confpiracy againt him. ledge of the military art, muit be evident from many particulars already related. The only queftionable part of his character is his fevere punifhment of a confpiracy formed againft him in the year 1320 ; a relation of which, to avoid interrupting our detail of more important matters, we have deferred till now. - The chief of the confpirators were William de Soulis, whefe anceftor had been a candidate for the crown of Scotland; the countefs of Strathern, and fome other perfons if high rank. The countel's difcovered the plot; aiter which Soulis confefed the whole, and was punifled with perpetual imprifonment; as well as the countefs, notwithfanding her having mace the difcovery. Gilbert de Malverb and John de Logie, both knights, and Richard Brown an efquire, were put to death as traitors : but the perfon mott lamented was Sir David de Brechin, for his bravery flyled the fower of clivalry. He was nephew to the king, and ferved with great reputation againft the Saracers. To him the corlpiators, after having exacted an oath of fecrecy, revealed their defigns. He condemned their undertaking, and refufed to fhare in it ; but did not difcover it, on account of the oath he had taken. Yet for this concealment he was tried as a traitor, condemned and executed, without regard to his perfonal merit or his relationflup to the king. The confpirators were tried before the parliament at Scone in 1325; and this feffion, in which fo much blood was fhed, was long renemhered by the people under the name of the black parliament. Whetber there was any thing real in this confpiracy, or whether the king only made ufe of this pretence to rid kimfelf of fuch as were obnoxious to him, cannot now be known with certainty.
The reign of Robert Bruce is dfinguifhed by great efforts, and occafioned confiderable changes both in property and in power, though it is treated by hiftorians rather as a period of romantic adventures, than as an age of uncommon revolutions. However few and unimportant were his firf fupporters when he fet out for Scone, he was crowned with the applaufe of an indignant people. His fucceffes, when he began to try his fkill and valour again@ fuch gallant foldiers as the Englifh, were not equal either to his views or his expectations. It was the battle of Bannockburn that decided the fate of Bruce, and fecured the independence of Scotland. After many conflicts of various fuccefs, the EngLifh government was induced to acknowledge the regal title of Bruce and the independence of the Scottish nation.

The revolution that took place when the Saxon race $5 c$ nimen of kings alicended the throne of Scotiand, was fcarcely greater than the changes which happened under the great reftorer of the Scottifh monarchy. Some of the moit eminent families in Nozth Britain fell before the fortune of Bruce, and forfeited thcir all to his offended laws. Many lubordinate barons, who owed fealty to thoie unfortunate families, rofe on their ruined eltates, and thus ceafed to be valials to fuperior lords. Some of the greateft offices, which had been hereditary in thofe eminent houles, pafed, with large poffetions, into new families, and railed them to unwonted greatnefs. It is not perhaps too much to day, when we affert, that one half of the forfeited lands of Scotland were conferred ou new proprietors, who gave a different calt to the population of a mixed people. It was the fault of Bruce, that he fometimes facrificed his policy to lis gratitude; but, much as the gratitude or munificence of that great prince betfowed on thote who had tought by his fice in many a contlict, he attempted not to deprise thole who were innoxious to law of their peffiffions. Yet we have been told, that, in order to check the growing pourr of his nobles, he furmoned them to flew by what right they held their lands, and, that in reply to this inquiry, they drew their fwords, and exclaimed, "By thele $1: \mathrm{e}$ acquired our lands, and with thele we mill defend them." This brilliant pifliage, wlich has made fuch a f.gure in the fabulous hittory of thole tincs, and bis been brought forward by the rhetoricians of the prefent day as a beantiful inftance of the effect of paffion in irverting the ufual order of words, appears to have littie foundation in hiforic truth. We have no example of ary man in Scotland claiming lands by right of conqueit ; and, during the reigrs of Bruce and his fon David, there was no ocher right to lands, except ancient poffefion, or the grant of the king *.

- Clat

As the acceffion of Robert Bruce forms a r.ew andmers's Cizbrilliant era in the bittory of Scotland, it may be proper, i, denia, before we proceed in our narration, to takie a gerieral rol i. view of the ftate of manners in North Britain during the interval that elapfed from the 1ith to the Iqth century. In this inquiry, we mult carefully diffinguifh betwcen the Gaelic and Englifh inhabitants of Scotland. The former were the moft numercus during the whole of this period. The government was adminiftered by Scoto-Saxon kings, on Anglo- Norman principles; with the aff:ftance of Anglo-Saxon barons. To thefe fources muif be traced the maxims of the governors and the cuftoms of the governed. Chivalry, with its notions and purfuits, was no fooner introduced into England by the Normans, than it was adopted by the Scoto-Saxon inhabitants of North Britain. Bu fore the reign of Mal. colm IV. it had become a fort of maxim, that a prince could fcarcely be confidered as a king before he had received the honour of knigkthod ; and before the acceffion of Alexander III. this maxim was fo fully ettablifls. ed, that it was deemed unfit, or ferhaps unlawful, to crown their fovereign before he had been knighted. The barons, in this relpect, followed the example of their fovereigns, by feeking knighthood, at the peril of life, through many a bloody field. Thus chivaliy, which had been unknown in Celtic Scotland, was fully eftablifhed before the time of Robert Bruce ; and armorial bearings were univerfally worn by the nobility. $\boldsymbol{E}$ (fore the conclufion of this period, the Scottith bi-

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s.otiand. flops quariered the arms of their families, with the badges of their fees; but the eftablihment of heralds, with a lord-lyon at their head, is of a much more modern date.

The mode of living, the virtues, the vices, of the ordinary claffes of people, both in South and North Britain, were nearly the fame, as they were of the fame extraction. The manners of the nobles were warlike, and their diverfions were analogous to their manners. Of thefe, tournaments were the moff fplendid; hunting and hawking, the moft frequent amufements. The kings were the great hunters, in imitation of the Norman fovereigns of Eng!and; and they had in every county a valt foreft, with a cafte, for the enjoyment of their favourite fport. Attached to every foreft there was a forefter, whofe duty it was to take care of the game. The bithops and barons had allo their forefters, winh fimilar powers. The king had his falconer; an oficice which, like that of fleward and fome others, gave a furname to one of the principal families of Scotland.

Of the domeftic paftimes of thofe ruftic ages, there are but few notices. When David led his army to the battle of the Standard (fee $\mathrm{N}^{\circ} 92$.), his varied people were amufed by geftures, dancings, and buffoons. The amufements of the fame clafies of people, in the two kingdoms, were pretty much the fame during thofe congenial ages. As the Englifh kings had their minfrels, fo the Scottish kings had their harpers and their trumpeters.

The education of fuch a people was fimilar to their manners. As early as the reign of David I. public fchools feem to have exifted in the principal towns of North Britain. The monks, who were ambitious of engrofing the education of the youth, obtained grants of the principal feminaries; and the children of the moft honourable parents were educated in the monafteries. The abbots had fufficient liberality to encourage the ftudies of the monks, in order to qualify them for becoming the inftructors of youth.

It may be eafily fuppofed, that the fpeech of the inhabitants derived a tinge from that of their mafters, who were not always natives of North Britain. At the begimning of the prefent period, the univerfal language of Scotland, if we except the diftrict of Lothian, was Gaelic ; but, towards the end of this period, the language was confiderably changed, efpecially in the fouthern difricts, where it was much the fame as that fooken in South Britain in the 11 th and 22 th centuries.

The manners which were moft remarkable, and attended with the moft lafting effects, were produced by that religious zeal which prevailed among all ranks of men, from the higheft to the loweft. All were active to endow or to enrich a monaftery, according to their circumftances; and many perfons of rank were ftudious to be received into the fraternity of fome ecclefiaftical community. It was thought an object of great confequence to be buried in the confecrated ground of fome religious houfe; and, to obtain this end, many lands and other property were befowed upon the monks. Eivery monaffery had its roll of benefactors, and many a heart beat with defire to be added to the facred lift. Feafts were made, and maffes faid, for the fouls of thofe perfons who had made the largelt donations to the monks; and particular monks were fometimes maintain-
ed to pray for the foul of the giver. The fame c...setic priaciple, which induced the people of that religiuns age to build chapels and ereet churches, prompted them to found magnificent cathedrals, and to delight in the patade of fplendid worllip. The age was warlike as well as religious. The dignified clergy did not fcruple to put on armour with their caffucs. The bithops and abbots, as well as the barons, had their efquires and ar-mour-bcarers, whom they rewarded with lands.

In the wars of thele times, defenfive armour was not commonly worn by the Scuttifh foldiers. The people retained the weapons of their anceftors, and their only defence was a buckler or target of leather. Their chief offenfive weapons were, a fuear of enormous length, and fwords of unfkilful workmanfhip. Their men-at-arms, or cavalry, were accoutred like the fame clafs of foldiers in England, as they were the defcendants of Englihmen.

After the death of Robert, the adminiftration was af-Randol h fumed by Randolph, in confequence of an act paffed in apronted 1318 , by which he was appointed regent in cafe of the regent. king's death. In his new character he behaved himfelf in a moft excmplary manner; and by impartially difcharging the duties of his ftation, and rigidly adminiftering juftice, he fecured the public tranquillity in the moft perfect manner. A fevere csercife of juitice was now rendered indifpenfable. During a long courfe of war, the common people had been accuftomed to plunder and bloodfhed ; and having now no Englifh enemies to employ them, they robbed and murdered one ${ }_{2} 3.3$ another. The methods by which R andolph reprefied His excelthefe crimes were much the fame with thofe which have ient ackn ibeen adopted in latter times; for he made the counties ${ }^{\text {r }}$ liable for the feveral robberies committed within their bounds. He even ordered the farmers and labourers not to houfe the tools employed by them in agriculture during the night-time, that the fheriff's officets might be the more vigilant in fecuring them. He gave orders for feverely puniihing all vagabonds, and obliged them to work for their livelihood; making proclamation, that no man fhould be admitted into a town or berough who could not earn his bread by his labour. Thefe regulations were attended with the moft falutary effects. A fellow who had fecreted his own plough-irons, pretending that they were ftolen, being detected by the fheriff's officers, was inftantly hanged. A certain man having killed a prieft, went to Rome, and obtained abfolution from the pope; after which he boldly returned to Scotland. Randolph ordered him to be tried, and, on his conviction, to be executed: "Becaufe," faid he, "although the pope may grant abfolution from the fpititual confequences of fin, be cannot fcreen offenders from civil punihment."

King Robert, juf before his death, had defired that Doug.as his heart might be depofited in our Saviour's fepulchre tetsint in at Jcrufalem; and on this errand the great conmander the H ; Douglas was employed, who fet Cail in June 2330 with wind wh a numerous and fplendid retiuue. He anchored off Sluys berds he rs in Flanders, the great cmporium of the Low Countries, An. $13^{-}$ where he expected to find companions in his pilgrimage ; but learning that Alphonfo XI, the young king of Leon and Caftile, was engaged in a war with Oinyn the Moor, he could not refilt the temptation of fighting againft the enemies of Chriftianity. He met with an honourable reception at the court of $\mathrm{S}_{\mathrm{\rho}}$ ain, and readily

## $S \mathrm{C} O \quad\left[\begin{array}{ll}628\end{array}\right] \quad \mathrm{S} C \quad \mathrm{O}$

Scotiand. obsained leave to enter into what was though: the common caufe of Chriltianity. 'The Spaniards firft came in fight of their enemy near Theba, a caltle on the frontiers of Andalufia, towards the kingdom of Gramada. The Moors were defeated; but Douglas giving way to his impetuous valour, purfued the enemy too eagerly, and throwing among them the cafket which contained the heart of his fovereign, cried out, "Now pafs thou
235 onward as thou wert wont; Douglas will follow thee Is killedby or die." The fugitives rallied and furrounded Dougthe Moors las; who, with a few of his followers, was killed in atin Spain.

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Edward Baliol claims the crown of Scotland. An. 133 r.
tempting to refcue Sir Walter St Clair of Roflin. His body was brought back to Scotland, and interred in the church of Douglas. His countrymen perpetuated his memory by beftowing upon him the epithet of the good Sir James Douglas. He was one of the greateft commanders of the age ; and is faid to have been engaged in 70 battles, 57 of which he gained, and was defeated in 13.-Of him it is reported, that meeting with an officer at the court of Alphonfo, who had his face quite disfiguted with fcars, the latter faid to him, " It aftonifhes me, that you, who are faid to have feen fo much fervice, fhould have no marks of wounds on your face." "Thank heaven," anfwered Douglas, "I had always an arm to protect my face."

In 1331, Edward Baliol began to renew his pretenfions to the crown of Scotland, about the fame time that David II. and his confort Johanna were crowned at Scone; which ceremony was performed on the $24^{\text {th }}$ of November. Some hiflorians relate, that he was excited to this attempt by one Twynham Lowrifon, a perfon who had been excommunicated for refufing to do penance for adultery, and afterwards was obliged to fly on account of his having way-laid the official, beaten him, and extorted a fum of money from him. But however this be, it is certain, that in this year differences began to arife with England, on the following account. It had been provided by an article of the
treaty of Northampton, that "Thomas Lord Wake of Scotland Ledel, Henry de Beaumont, called earl of Buchan, and Herry de Percy, fhould be reltored to their eftates, of which the king of Scots, by reafon of the war between the two nations, had taken poffeffion." This article had been executed with refpect to Percy, but not to the other two ; and though Edward had repeatedly complained of this neglect, he could not obtain any fatisfaction (G).

The difinherited barons now refolved to invade Scotland, though their force confifted of no more than 3000 infantry, and 400 men at arms. Edward would not permit them to enter Scotland by the ufual way, as he himelf did not yet choofe openly to take part in their quarrel. For this reafon they were obliged to take thipping, and landed at a place called Ravenfbare, Raven/pur, or Ravenjburgh, at the mouth of the Humber. Randolph, having intelligence of the Englifh preparations, had marched an army to the frontiers of Eaft Lothian ; but, being afterwards informed of the naval armament, he marched northwards; but died at Muffelburgh, fix miles eaft of Edinburgh, on the 20th of July 1332. With him died the glory of Scotland. The Randolph earl of Marr, a man whofe only merit confified in his the regent being related to the royal family, was chofen to fucceed dies. him in the regency.-Edward, in the mean time, fell Ans 1332. on a moft curious expedient to fhow the juftice of his caufe. In March 1332, he had publifhed a prohibition for any perfon to infringe the treaty of Northampton. The difinherited lords had been fuffered to embark, exprefsly for the purpofe of invading Scotland, after this prohibition was publifhed. After they were gone, Henry de Percy was empowered to punifh thofe who fhould prefume to array themfelves in contempt of his prohibition; and becaufe he underfood that the Scots were arming in order to repel thofe invaders whom Edward had indirectly fent againft them, he empowered Henry de Percy to arm againtt them.
(G) As this is an important period of hittory, we Ghall here tranferibe the opinion of Lord Hailes concerning the caufes of this ftrange delay of cxecuting an article feemingly of little importance where a nation was concerned. * By the treaty of Northampton (fays he), all the claims of the Englifh barons to inheritances in Scotland were difregarded, excepting thofe of Henry de Percy, Thomas Lord Wake of Ledel, and Henry de Beaumont. Percy procured fatisfaction : but the others did not.
"Henry de Beaumont, in the reign of Edward II. had affociated himfelf with the nobility againt the D'Efpenfers, and on that account had fuffered imprifonment and exile. He aided Queen Ifabella in the invafion which proved the caufe of the depofition, captivity, and deatly of her hufband. Although, under the adminiftration of Mortimer, he had obtained a fhare in the partition of the fpoils of the D'Efpenfers, he perfifted in oppofing the meafures of the new favourite; and although his own interefts were fecured by the treaty of Northampton, he boldly exclaimed againft the injuftice done to the other barons by that treaty. He joined the princes of the bloodroyal in their attempt to refcuc the young king from the hands of Ifabella and her minion, and place him in their own; and, on the failure of that ill-advifed confpiracy he again took refuge in foreign parts. It appears that Lord Wake, having followed the political opinions of Henry de Beaumont, was involved in like calamities and difgrace. Wbile the queen-dowager and Mortimer retained their influence, the claims of thofe two barons were altogether overlooked : But within 48 hours after the execution of Mortimer, a peremptory demand was made by Edward III. to have their inheritance reflored.
"The demand was unexpected and alarming. Made at the very moment of the fall of Ifabella and Mortimer, and in behalf of men who had loudly protefed againft the treaty of Northampton, it indicated a total and perilous change in the fyftem of the Englifh.
" Randolph, of late years, had beheld extraordinary riciffitudes in. England. The D'Efpenfers alternately perfecuted and triumphant, and at length abafed in the duft : The fugitive Mortimer elevated to fupreme authority, victorious over the princes of the blood-royal, and then dragged to a gibbet. Hence it was natural for Randolph to wifh, and even to look, for fome new revolution, which might prove more favourable to the Scottifh interelts.

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scotland. On the 3 Ift of July, Edward Baliol and his affoci$\underbrace{}_{23 \mathrm{~S}}$ ates landed in the neighbourhood of Kinghorn, on the Balio! land Forth; routed the earl of Fife, who oppofed them; and at King- marched next day to Dunfermline. Having then orhorn, and dered his fleet to wait for him at the mowth of the defieat the Tay, he proceeded northwards, and encamped on the Scots. Miller's acre at Forteviot, with the river Earn in front.

Nothing, however, could be more dangerous than his prefent fituation, and his deftruction feemed to be inevitable. The earl of Marr was encamped with a numerous army on the oppofite bank of the river Earn, in the neighbourhood of Duplin; and another, nearly as numerous, had advanced from the fouth, through the Lothians and Stirlinghire, and fixed its quarters at Auchterarder, eight miles to the welt of Forteviot. Hiftorians differ as to the number of the two armies. Fordun fays, that the regent had with him 30,000 men, and the earl of March as many; and that Baliol had between 500 and 600 men at arms, that is, horfemen completely armed. Hemingford reckons each of the Scots armies at 40,000 , and Baliol's at 500 armed men. Knyghton fays, that Baliol, when he landed in Fife, had 300 armed men, and 3000 more of different forts; bnt that he had in all only 2500 men in his camp at Earn. In this defperate fituation, the Englifh general formed a defign of attacking the Scots in their camp. They were directed to a ford by Andrew Murray of Tullibardine. The Scots kept no watch, but abandoned themfelves to intemperance and riotous mirth; while their enemies, led by Alexander Moubray, croffed the river at midnight. They afcended a rifing ground, came unperceived on the right tlank of the Scottifh army, and made a dreadful flaughter. At the firft attack, young Randolph hafted with 300 men at arms to oppofe the enemy; and being feconded by Murdoch earl of Menteith, Alexander Frafer, and Robert Bruce natural fon to the late king, he gave a check to the Englifh, and maintained the combat on equal terms. But now the regent himfelf, along with the whole multitude, rufhed forvard to battle without the leaft order : fo that while the hindmoft preffed on, the foremoft were thrown down, trodden upon, and fuffocated. The faughter lafted many hours, and the remains of this valt army were utterly difperfed. Many men of eminence
were killed; among whom were Donald earl of Marr, $\underbrace{\text { Scotland. }}$ author of the whole cataltrophe; Thomas earl of Moray, Murdoch earl of Menteith, Robert earl of Carrick, Alexander Frafer, and Robert Bruce. The flaughter of the infantry and of the men at arms was very great; the moft probable accounts make it 2000 men at arms, and upwards of 13,000 common foldiers. The lofs of the Englifh was inconfiderable.

The day after this victory, Baliol took poffeffion of Farther Perth; and, apprehending an attack from the earl of fuccess af March, caufed the ditch to be cleared, and the town Baliol. to be fortified with pallifadoes. The firft information which the earl received of this dreadful defeat was from a common foldier, who fled from the place mortally wounded. When this poor wretch came up, he had time to do no more than to fhow his wounds; after which he fell down, and expired. On his arrival at the field of battle, he found a dreadful confirmation of the intelligence given by the foldier; but inflead of taking his meafures with any prudence, he and his men hurried on to Perth, actuated only by a blind impulfe to revenge. At firft they defigned to affault the place; but their hearts failing them, they next determined to reduce it by famine. This, however, could not be done unlefs the Scots were mafters at fea. John Crab, the Flemilh engineer (who had diftinguifthed himfelf by deftroying the famous engine called the fow at the fiege of Berwick), had continued for many years to annoy the Englifh on the eaftern coafts. After the blockade of Perih was formed, he came with ten veffels to the mouth of the Tay, where the Englifh fleet was, and took the fhip belonging to Henry de Beaumont; but foon after all his ten veffels were ${ }^{2} 4 \circ$ burnt by the Englifh in a general engagement. Af-He is ter this the blockade of Perth was raiiicd, the earl of crowned March difbanded his army, and Edward Baliol was scotland. crowned king of Scotland at Scone, on the $24^{\text {th }}$ of September 1332.

The new monarch was no fooner put in poffeflion of the kingdom, than he left Perth in the hands of the earl of Fife, while he himfelf repaired to the foutbern parts of the kingdom. But the party of King David was far from being extinguifhed. Baliol was fcarcely gone, when the town of Perth was furprifed, and its fortifications

Meanwhile, with great reafon and good policy, he delayed the reftitution of the inheritances claimed under the treaty of Northampton, in behalf of the avowed oppofers of that treaty.
"Befides, it was neceffary for Randolph to be affured that the Englifh, while they urged the performance of one article of that treaty, did, on their part, fincerely purpofe to perform its more important articles, by continuing to acknowledge the fucceffion in the houfe of Bruce, and the independency of the Scottifl uation.
"Of this, however, there was much reafon to doubt. For the Englihh king had taken Baliol under his protection, and had granted him a paffport to come into England, with permiffion to refide there during a whole year, ( 1 :th Oetober ${ }^{1} 3,30$ ). Thefe things had no friendly or pacific appearance.
"Be this as it will, the event too fatally juftified the apprehenfions of Randolph ; for, while Edward III. was demanding reftitution of the eftates referved by the treaty of Northampton, his fubjects were arming in violation of that treaty.
" It is remarkable, that, on the $24^{\text {th }}$ March 1331-2, Edward appears to have known of the hoffile affociation of the difinherited barons. His words are, 'Quia ex relatu accepimus plurimorum, quod diverfi homines de regno noftro, et alii (meaning Baliol and his attendants), pacem inter nos, et Robertum de Brus, nuper Regem Scotorum, initam et confirmatam infringere machinantes, diverfas congregationes hominum ad arma indies faciunt, et, per marchias regni nofri, dictam terram Scotise, ad cam modo guerrino impugnandum, ingredi intendunt;' Fredera, tom. iv. p. 511. And yet, on the 22d April following, he demanded reftitution of the inheritance of Lord Wake, me of the barons in arms;" Fadern, tom. iv. p. 518.
scolland. fortifications razed, by James Frafer, Simon Frafer, and Robert Keith. The earl of Fife was made prifoner, with his family and vaffals. Andrew Murray of Tullibardine, who had directed the Englith to a ford on the river Earn, was put to death as a traitor. Such of the Scots as fill adhered to the interett of their infant prince, chofe Sir Andrew Murray of Bothwell regent. He was a brave and active man, but had not as yet fufficient force to attempt any thing confider-
241 able.
His thame- In the mean time, Baliol behaved in a mof fcandifui behavi- lous manner. At Roxburgh, he made a folemn furour: render of the liberties of Scotland; acknowledged Ed-

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iven out
e. Scotland. ward for his liege-lord; and, as if this had not been fufficient, he became bound to put him in poffeffion of the town, caftle, and territory of Berwick, and of other lands on the marches, extending in all to the yearly value of 20001 . "on account," as the inftrument bears, " of the great honour and emoluments which we have procured through the fufferazce of our lord the king, and by the powerful and acceptable aid which we have received from his good fubjects." He alfo proffered to marry tbe princefs Johanna, whom he confidered as only betrothed to David Bruce, and to add 5001 . to her jointure ; and this under the penalty of $10,0001$. to be appropriated as a portion to the young lady, or otherwife difpofed of for her behoof. He further engaged to provide for the maintenance of David Bruce as the king of England fhould advife; and, lafty, he became bound to ferve Edward in all his wars, excepting in England, Wales, and Ireland, for the fpace of a year together, with 200 men at arms, and all at his own charges; and he bound his fucceffors to perform the like fervice with 100 men at arms. But aftern*ards iEdrard having engaged to maintain him on the throne of Scotland, Baliol bound himfelf to ferve him in all his wass whatever.

Though the greateft part of the nation fubmitted to this fhameful treaty, it roufed the indignation of thofe who wifhed well to the liberties of their country. John, the fecond fon of Randolph, now earl of Moray by the death of his brother; Archibald, the youngeft brother of the renowned Douglas; together with Simon Frafer, affembled a body of horfemen at Moffat in Annandale ; and, fuddenly travering the country, attaulted Baliol unexpectedly at Annan. His brother Henry made a gallant refifance for fome time; but was at lait overpowered by numbers, and killed, together with feveral ether perfons of diftinction. Baliol himfelf efcaped almoft naked, with fcarcely a fingle attendant, and fled to England. After his departure, the Scots began to make depredations on the Englifh frontiers. Edward iffued a proclamation, in which he folemnly averred, that the Scots, by their hoftile depredations, had violated the peace of Northampton. Baliol, in the mean time, being joined by fome Englift barons, returned to Scotland; took and bumt a caftle where Robert de Colville commanded; and, eftablifh. ing his quarters in the neighbourhood of Roxburgh, began to make preparations for befieging Berwick. Juft after his arrival, Archibald Douglas, with 3000 men, invaded England by the weftern marches, plundered the country, and carried off much booty; in revenge for which, Sir Anthony de Lucy made an inroad into Scotland, defiated and took prifoner Sir William Dou-
glas, celebrated in hiftory by the appellation of the
knight of Liddefdaic, whom Edward caufed to be put in irons. About the fame time, Sir Andrew Murray the regent attacked Baliol, with a view to difcomfit him before the reinforcements which he expected out of England could arrive. A flarp conflict enfued at Roxburgh, in which the regent, attempting to refcue a folburgh, in which the regent, attempting to refcue a fol-regeat de-
dier, was taken prifoner : and thus Scotland was at once leated and deprived of its two ableft commanders.

Archibald Douglas was now declared regent ; and Edward prepared to invade Scotland, in order to take vengeance on its inhabitants, as he faid, for the wrongs they had done, and to feek fuch redrefs as might feem good to himfelf. He ordered poffeffion to be taken of the ifle of Man in his own name; and foon after made it over to Sir William de Montague, who had fome claim of inheritance in it. The chief defign of Edward in this expedition, however, was to obtain poffeffion of the town of Berwick, which had been already ceded to him by Baliol. This appeared to Berwick the Scots a place of no lefs importance than it did to befieged by Edward; and therefore they took all the precautions in their power to prevent the lofs of it. The earl of March was appointed to command the caftle, and S:r William Keith the town. The Scots made an obftinate defence; yet it was evident that they muft foon have yielded if they bad not been relieved. At length the regent, with a numerous army, appeared in the neighbourhood. He endeavoured to convey fuccours into the town, or to provoke the enemy to quit the advantage of the ground, and engage in battle. But all his efforts were in vain; the Englifh obftructed every paffage, and food on the defenfive.

The ragent 245 country, and cven affaulted Bamborough-caftle, where invade Philippa the young queen of England had her refidence. NorthumHe fondly imagined that Edward III, would have aban-berland is doned the fiege of Berwick, after the example of his father, in circumfances not diffimilar. Edward, however, perfevered in his enterprife.

During a general affault, the town was fet on fire, and in a great meafure confumed. The inhabitants hasing experienced the evils of a fiege, and dreading the greater evils of a form, implored the earl of March and Sir William Keith to feek terms of capitulation. A truce was obtained; and it was agreed, that the town and caftie fhould be delivered up on terms fair and honourable, unlefs fuccours arrived before the hour of vefpers on the 19th July.

By the treaty, Sir William Keith was permitted to have an interview with the regent. He found him with his army in Northumberland; urged the neceffity The ${ }^{246}$ of his return; and ftowed him, that Berwick, if not in-refolve to ftantly relieved, was loft for ever. Perfuaded by his im-cume to an portunities, the regent refolved to combat the Englifh, engageand either to fave Berwick or lofe the kingdom.

On the afternoon of the $19 t h$ of July, the regent prepared for battle. He divided his army into four bodics. The firft was led by John earl of Moray, the fon of Randolph; but as he was soung and inexperienced in war, James and Sinion Frafer. Soldiers of approved refutation, were joined with him in the command. The fecond body was led by the fteward of Scotland, a youth of 16 , under the infpection of his uncle Sir James Stewart of Rofyth. The third body was led

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s:ncland. by the regent himelf, having with him the earl of $\underbrace{\text { Carrick and other barons of eminence. The fourth }}$ body, or referve, appears to have been led by Hugh earl of Rofs.

The numbers of the Scottich army on that day are varioufly reported by hitorians. The continuator of Hemingfard, an author of that age, and Knyghton, who lived in the fucceeding age, aicertain their numbers with more precifion than is generally required in hiforical facts.

The continuator of Ieming ford minutely records the numbers and arrangement of the Scottilh army. He fays, that, befides earls and other lords or great barons, there were 55 knights, 1100 men at arris, and 13,500 of the commons lightly armed, amounting in all to 14,655

With him Knyghton appears to concur, when his narrative is cleared from the errors of ignorant or carelefs tranfcribers.

It is probable, howerer, that the fervants who tended the horfes of perfons of diftinction and of the men at arms, and the ufelefs followers of the camp, were more numerous then the actual combatants.

The E.igi: h were advantageoully pofted on a rifing ground at Halidon, with a marlhy hollow in their froat. Of their particular difpofition we are not informed, farther than that Baliol had the command of one of the wings.

It had been provided by the treaty of capitulation, "That Berwick fhould be confidered as relieved, in cale 200 men at arms forced their pailage into the town." This the Scotifh men at arms attempted; but Edward, aware of their purpofe, oppofed them in perfon, and repulfed them with great flaughter. The Scottioh army rufhed on to a general attack; but they had to defcend into the marliy hollow before mounting the eminences of Halydon. After having ffruggled with the difficulties of the ground, and after liaving been inceflantly galled by the Englifh archers, they reached the enemy. Although fatigued and difordered in their ranks, they fought as it became men who had conquered under the banners of Robert Bruce. The Englif, with equal valour, had great advantages of fituation, and were better difciplined than their antagonifts. The earl of Rofs led the referve to attack in flank that wing where Baliol commanded; but he was repulfed and flain. There fell with him Kenneth earl of Sutherland, and Murdoch earl of Menteith.

In other parts of the field, the events were equally difaftrous. The regent receivei a mortal wourd, and the Scots everywhere gave way. In the field, and during a purfuit for many miles, the number of flain and puifoners was fo great, that few of the Scottifh army efcaped.

Befides the earls of Rofs, Sutherland, and Menteith, there were among the ©ain Malcolm earl of Leenox, an aged baron; he had heen one of the foremoft to repair to the ftandard of Robert Bruce, and his laft exertions were for his country: Alexander Bruce earl of Carrick, who atoned for his thort defection from the family of his benefaetor ; John Campbell earl of Athol, nephew of the late king; James Frafer, and Simon Frafer; John de Graham, and Alexander de Lindelay, Alan Stewart, and many pther perban of eminent rank.

The Steward had two uncles, John and James. John Scotland. was killed, and James mortally wounded and mảe prifoner.

The regert, mortally wounded, and abandoned on the field of battle, lived only to fee his army dificomfited and himfelf a prifoner.

This victory was obtained with very inconfiderable lofs. It is related by the Englifh hiforians, that on the fide of their countrymen, there were killed one knight, one efquire, and twelve foot-foldiers. Nor will this appear incredible, when we remember, that the Englifh rank: remained unbroken, and that their archers, at a fecure diftance, incerfantly annoyed the Scottilh infantry.
According to capitulation the town and caltle of Ber. wick furrendered, and the Euglihi. king took 12 hoflages, for fecuring the fidelity ot the citizens.

Thus was the whole of Scotland reduced under the fubjection of Baliul, escepting a few furtrefies ; fo that it became neceflary to provide for the fafty of the young king and qृueen. Accordingly, they were conveyed to France, where they were honourably entertained. Meanwhile, Ealiol employed himielf in making new concelfoons to his liege loid Edward; and ia 1334 the work of fubmiffion was complated by a iolenn inftrument drawn up by Baliol, in which he furrendered great part of the Scottith dominions, to be for ever annexed to the crown of England. In this inftru- ${ }^{250}$ ment Baliol faid, that "he liad formerly become bound miffions of to make a grant to Edward of lands on the marches, Baliol. to the amount of two thoufard-pound lands; that the An. 13340 Scottilh parliament had ratified his obligation; and that he had accordingly furrendered Berwick and its territory ; and now, for completely difcharging his obligatio:s, he made an abfolute furrender to the Englifh crown of the forefts of Jedburgh, Seikirk, and E:trick; of the counties of Roxburgh, Peebles, and Dumfries; together with the county of Edinburgh, and the conHabularies of Linlithgow and Haddington." This extraordinary furrender was made with fo much precipitation, that Baliol forgot to except his own private effate out of it. This, however, was generoufly relfored to him by Edward; who proclaimed, that, "having already received Catisfaction in full, he had too much reverence for God, juflice, and good faith to man, to allow the cetion to be prejudicial to the private rights of the king of Scots.". At the fame time, Baliol prefented himfeli before his liege-lord; did homage, and fwore fealty, " for the whole kingdom of Scotland and the iRes adjacent."

A quarrel no:v arofe among the difinherited lords, A quarrel to whom this revolutiois had been owing, which pro- amang the duced the wort confequences to the intereft of Baliol. Englith difo The brother of Alexander de Moubray died, leaving daughters, but no iflue-male. Moubray hawing claimed a pieference to the daughters of his brother, Baliol countenanced his fuit, and, as it appears, fut him in poffefion of the inheritance. Henry de Bexumont earl of Buchan, and Dovid de Strathbolzie or Haatings, earl of Athol, efpoufed the caufe of the heirs-general; but perceiving that their folicitations were not heard, they left the court in difguth, and retired to their cafles about the end of Auguf 1334. Raliul foon nerceived bis error in offending thefe two powerful lords; and in order to regain their favour, difmilid Moubrav,
$\underbrace{\text { Seotland. }}$ eltates of the young Steward of Scotland. The whole alienated the affections of Moubray, and added to the power of the earl of Athol, who was by far too powerful before.
${ }^{252}$
Baliol's
party every where defeated.

Avout this time Sir Andrew Murray of Bothwell, having regained his freedom, began to affemble the friends of liberty, and was immediately joined by Mou- bray. In a moment every thing was in confufion. Geffrey de Moubray, governor of Roxburgh, revolted; Henry de Beaumont was befieged in his caltle of Dundarg by Murray and Moubray, and forced to furrender, but obtained liberty to depart into England. Richard Talbot, endeavouring to pafs into England with a body of troops, was defeated and taken prifoner by Sir Willian Keith of Gallton. The Steward of Scotland, who had lain concealed in the ifle of Bute ever fince the battle of Halidon, now paffed over to the caftle of Dunbarton, which was one of the few forts remaining to King David. With the affiffance of Dougal Campbcll of Lochow, he made himfelf mafter of the caftle of Dunoon in Cowal. His tenants of the ifle of Bute attacked and flew Alan de Lile the governor, and prefented his head to their mafler. John the fon of Gilbert, governor of the caftle of Bute, was made prifoner in the action. He ordered the garrifon to furrender, and attached himfelf to the Scottilh intereft. Encouraged by thefe fucceffes, the Steward entered his ancient inheritance of Renfrew, and compelled the inhabitants to acknowledge the fovereignty of David. Godfrey de Rofs, the governor of Ayrfhire, fubmitted to the Steward. The earl of Moray returned from France, whether he had fled after the battle of Halidon, and was acknowledged regent along with the Steward. The earl, having raifed a body of troops, marched againft the earl of Athol, compelled him to retire into Lochaber, and at laft to furrender ; after which he embraced the party of the conquerors. Baliol was now obliged to retire again into England, in order to folicit affiltance from Edward; and this was readily granted. Edward himfelf took the field at a very unfavourable feafon for military enterprifes. His army was divided into two parts. With the one Edward wafted Lothian, while Baliol did the like in Anandale with the other; and, in the mean time, Patrick earl of March, notwithitanding the unfavourable pofture of affairs, renounced the allegiance he had fworn to England. His motive for this was, that though the kings of England had maintained him in an independency dangerous to Scotland, he was affured that they would never permit him to become formidable in a country which they themfelves poffeffid.

The year 1335 is remarhable for the fiege of Lochleven caftle by the Englifh, under Joha de Strivelin. This fort is built on a fmall ifland, and very difficult of accefs. The Englifh commander erected a fort in the cemetery of Kinrofs; and at the lower end of the lake, from whence runs the ftream called the Water of Leven, he raifed a ftrong and lofty bulwark, by means of which he boped to lay the illand under water, and oblige the garrifon to furrender. But four of the Scots foldiers, having found means to approach the bulwark undifcovered, pierced it fo dexteroufly, that the watere, rufhing out with a prodigious force, overflowed part of the Englid camp; and the garrifon,
fallying out under the confufion occalioned by this Scotlant? unexpected inundation, flormed and plundered the fort at Kinrofs. At this time the Englifh commander, with many of his foldiers, happened to be abfent at Dunfermline, celebrating the feftival of St Margaret. On his return, he fwore that he would never defiit till he had taken the place, and put the garrifon to the fword ; but his utmoft efforts were at laft baffled, and he was obliged, notwithftanding his oath, to defift.

In the meaa time, the regents affembied a parliament at Dairfy, near Cupar in Fife; but no plan of defence could be fixed on, by reafon of the animofities and factions which prevailed among the barons. Through the mediation of the French, fome terms of peace were propofed; but being rejected by the Englifh, Edward again invaded Scotland, cruelly ravaging the country with one army, while Baliel and the earl of Warrene did the fame with another. Soon after the invafion, Count Guy Conut Cuy of Namur landed at Berwick with a confiderable num-of Narnur ber of men at arms in the fervice of the Englifh. He defeated advanced to the neighbourhood of Edinburgh; but was and taken defeated and taken prifoner by the earls of March and Moray, and Sir Alexander Ramfay. In this engagement, one Richard Shaw, a Scottifh efquire, was fingled out by a combatant in the army of Count Guy, and both pierced each other with their fpears ; the ftranger being ftripped, was difcovered to be a woman. The earl of Moray treated Guy with the greateft refpect, ${ }^{256}$ not only allowing him and the remainder of his troops regent to depart from Scotland without moleftation, but even taken priattending him to the borders, accompanied by William foner, in Douglas and his brother James. On his return, Wil- confe-
liam de Pree of burgh, attacked and defeated his party; James Douglas fiameful was killed, the earl himfelf taken prifoner, and carried treaty is into England.

Thus was the Scottifh nation once more reduced to land. $\begin{gathered}\text { with }\end{gathered}$ the brink of ruin. Alexander de Moubray, Geffrey de Mowbray, and fome others, pretending powers from "the earl of Athol and Robert the Steward of Scotland," concluded a treaty with Edward at Perth; the fubltance of which was, that all the Scots fhould receive pardon, and have their fees, lands and offices reflored, excepting thofe who by common afent in parliament thould be excluded. The liberties of the church and the ancient law's and ufages of Scotland were to remain in full force. All offices were to be filled with Scotimen, excepting that the king fhould appoint whom he pleafed within his regalities.

The earl of Athol now began to perfecute with the The earl ${ }^{257}$ utmoft fury thofe who wifhed well to the caufe of Scot-Athol deland. With 3000 men he befieged the caftle of Kil-feated and drommey, which had hitherto been the great refuge of killed. King David's party. Sir Andrew Murray of Bothwell refolved at all events to attempt the refcue of his wife and family, who were fhut up in this caftle. With 1100 men he furprifed Athol in the foreft of Kilblain. The earl's men, feized with a panic, fled and difperfed themfelves ; on which their commander, refufing to accept of quarter, was killed. Sit Andrew Murray then affiembled a parliament at Dunfermline, where he was immediately appointed regent.

In 1336 the king of England perceiving that the Edward Scots were taken under the patronage of France, re ayain infolved to invade their country, and crufli them at once, landes.
before An. I 336 .

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beture they could have any aflifance from their new allics. In this expedition he penetrated as far as Invernefs; but the Scots, commanded by Sir Andrew Murray, avoided coming to a gencral action; fo that I.dward could not effeet any thing of confequence. The inhabitants of Aberdeen attacked one Thomas Roheme, who had landed at Dunnottar. They were defcated; but Ruiheme fell in the action. Edward chattifed the vanquifted feverely for their temerity, and laid the town in afhes. He then began to repair thic calles whofe fortifications had been demolifhed by King Robert. He put in a flate of defence the caftles of Dunottar, Kinclevin, Lawriefton, Stirling, Bothrsell, Edinburgh, and Roxburgh; greatly augmented the fortifications of Perth, and left a confiderable body of troops in the place. The Scots began to reduce thefe cattles as foon as Edward was departed ; and in 13.37, under Sir Andrew Murray, invaded Cumberland. No great exploits, however, were now performed on either fide. Edward being emplosed in preparations for invading France, had little leifure to attend to the affairs of Scotland; and the Scots, divided among themfelves, and deftitute of thofe leaders under whom they had acquired fo much glory, could not now annoy their enemies as formerly. The moft remarkable tranfaction was the fiege of the caftle of Dunbar, belonging to the earl of March. The Euglifh commander was the earl of Salifbury. The earl of March was abfent; but his *wife, the dawhter of Randulph, from her complexion commonly called Black Agner, undertook to defend it in her hufband's abfence. The Englifh again employed that huge machine called a fow, formerly mentioned in our account of the fiege of Berwick: it met with the fame fate now as at that time; an huge flone, let fall woon it from thee top of the walls, crufhed it to pieces. The Engiiih, bafled in every altack, terned the fiege into a blockade; but Sir Alexanter Ruminy having found mans to enter it with 40 refol ate men, the garrifon made a fally, and cut in pieces the advanced guard of the enemy. The Englith, difherrtened by fo many misfortur:, abandosed the enterprile.
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Exploits of Robert the Steward. An. 1339.

In 13.38, Sir A:drew Murray the regent diet, and was fueceeded in 1 's office by Robert the Steward of Scotland. In 1339 he reduced the town of Perth and the caftle of Sririlg; and gaind over to the Scottilh intereft William Bul ock, governor of the cafle of Coupar: after which, having expelled the enemy from every poft to the northward of the Forth, he employed himfelf in fettling the affairs of the nation as well as he could.

In $134^{1}$, the caltle of Edin' arsh was furbrif d hy a
26 r
Edinburgh antle furprited by Sir Wi iam Bu lock. An. I $3 \neq \mathrm{r}$. device of Sir WHarm Buliock. According to his appointment, one Walser Curcie of Durde prisately receive 1 into his 0 in tho krisht of Liddefdal, with William Fr. fer, Joaclim of Kianu k, and $2>0$ refolute men. Currie caft ancli $r$ in Leith rasd, pr tonding to be an Englift thipmafic; he liad a cettr of wine a wl provifions, with whirh I-T [ 1 ro twith the comman-
 to the caftic: $e$, , $\quad$ a 1 . 1 o: down in $\Gamma_{1}$ i) a

 King David defdale, with a rarty holuh in the: Hous ${ }^{-1} 0^{1}$, arrive in Scotla.d.
year, the king qud q , n arrived from France, und land. ed at Inverlervic in Kincardisethire.

In 1342, Sir Alexander Jiamfiy took the fleang for- A i. It trefs of Koxbush ; for which important fervice he king beftowed on him the charge of Breriff of T'eviotdale, at that time held by Willian Dougla knight of Liddef. dalc. The kin is liverality proved fatal to liamfay : Miferabic for from that time Douglas became his implacable and dorsn inveterate enemy; and having, after a pretended recon Al war , ciliation, unexpectedly furpried him with three of his Rams. Wi friends, he put them inftantly to death, carrying off 13 m B .. Ramfay himfelf to his cafte of the Hermi age, wlanrelock.
he caufed him to be flarved to death in a moft barbarous manner. The unhappy man was conf red in a room, over which was a he.p of wheat ; a fery grains of which were let fall every day through a holc, not as many as would fupport life, but as wenld protract it for a time, and make him longer fenfible of the agonies of hunger: and in this miferabte fituation he furvived I7 days. About the fame time Sir William Bullock was put to death by Douslas i., a fimilar manner ; nor was King David at that time in a capacity to punifh fuch atrocious cruelties committed by fo powerful a fubject.

In the mean time, David having raifed a poverful David in army, prepared to take a fevere reve.ge of the Englifh, $\begin{gathered}\text { d } \\ \text { En }\end{gathered}$ from whom he had fuffered fo much. Edward ivas at and ame that time in France, but commanded Baliol to raite all the militia beyond the Trent: which order, however, utmoft produced but litt.e ex.ef; fo much was this mean-cruelty. fyirited prince delpied by the Englifh. David invaded Northumberland without oppofition, and ravaged the country ; but was obliged to raife the fiege of Nevcaftle, which was commanded by Sir John Nevil, an evcellent offcer. Davil, exafperated at this re ul : entered the bifhopric of Durham, which he rasaged i.t the moit cruel manner. Hosever, on the approath of L.'sard with a powerful aı ny, the Scois thought propur to retire ; and a two years truce was agreed on.

This pacilication was but thort-lived. In 1345 the other nvaScots acain prepared to invade Ergland, while Ed. fors. wayd took all neceflay meafures for op fing th m : An. 1.45. how ver, this year the Scots were furcelful, ravaning Wealmoreland, and burning feveral towns. The jear ended with a new truce b. veen the two nations; and hortilities were not renerved till $13+6$, when David entered England with an army of $50, n=5$ men. His fin exploit was the taking of the fortrefs of Liddel, and maflacring all whom he fund in it. The commander, ${ }_{266}$ Sir Walter Selby, capitulated with a Scots kni ht for Monftrous his life; but the bargain being difappeoved of by Da- David of vid, he ordered two of Selly's fons to be frangled in David hi: pr-nce, and tien the fatly-r's head to be cut off. Fiom the nee the Souts narched of I. wer ft, which they plundered; th m paffing ima Norl mber'mord, licy pillaged the priozy of Hexlam, but foaled the ow , that it mi hit lerve as a marazine. Tl ree other lown, Corbridge, Durh:m, and Dat ling'on, vere fared fit the fame reaforn. In his march to Durlom, it is $\because$. d that hew wha have ratac the cour $y$ a a defert, had not fome of the m ohs prid hat a cottil pion of a then fudpras t, ip e their ell tes: how ver, ccoidio ;

 by P ! ing threepence.
'Tj; at a ft in' to the cruelties of thr barbarous i:raA L.

## $\because \mathrm{C} O \quad[63 \ddagger] \quad \mathrm{S}$ C O

Sout iad der, the queen of England, in her hurband's abfence, aflemiled a powerful army, which was divided into four bodies; the firit commanded by Lord Henry Percy ; the fecond by the archbilhop of York ; the third $y$ the bithor of Eisicoln, the lord Moubray, and Sir '1 domas Rokeby; and the fourth and principal divifua was headed by Edwa:d Eahol. - The king of icutlard heuded a c'rofen battalion, compofed of the Nower of his or bility, and the anxiliaries with which he had been fup lied by France. The high feward of Scotland houded the lecond line; and the third was commanded 'y the earls of Moray and Douglas. While the Englith were approaching, Lord Dougias and S:r David Graham 太irmihed with them, but were defeated with the lo's of 500 of their men; which feemed an men of the difalter that was abou: to enfue. The general engagement began between the archers on both fides; but the Fingliih being much fuperior in the wfe of the bor-, the fleward of Scotland advanced to the relief of his countrymen. The Englith archers, unable \$3.. I \& 46 . to bear his attack, Fell back upon Lord Henry Percy's divifion, which wes thus put in confufion, and would hase been totally dcfeated, had not Baliol advanced to iteir relief with a body of 4000 horfe. The fteward प्रas then obliged to retire; by which means the flank of that divifion commanted by David, and which was then engaged with another line of the Englifh, was leit expofed to an attack. Baliol perceived the advantage ; and, without purfaing the iteward, atiacked the king's divifion, which was ipeedily cut in pieces or diperfed. Divid was left with about 80 noblemen and gentlemen, but fill maintained the fight with obsinacy; nor would he yield evea when wounded in the head with an arrow, expecting every moment to be relieved by the feward and that line of his army which was fill entire under the lords Moray and Douglac. At lalt finding himfelf 'ratlly overpovered, he attempted to retreat, but wias urent. hen by a party ander one John Copeland. This captain, endeavouring to reize the king, had two of his teeth flruck cut ty a blow of his gaunt?et; but at laft, finding it in vain to refit, the king was obliged to give up his fivord and furrender himielf a prifoner.-After the was token, Batiol attacked and totaily routed that divition of the Scottith army which had bitlerto remained under the lords Moray and Doughns. In this battle the Scots loft a great number of their nobili:y, and 15,000 common foldiers. Nany perfons of the frif dininction were alfo taken with the king; and had it not been that the efcape of the Scots was favcured by the avarice of the Eng!th foldiens, who neclected the purfuit in order to plender, fearce!y a fingle foldier would have returned.
Accutint of $\mathrm{K}: n g \mathrm{D}$ vid, after this unfortanate battle, was carKine Davidried to the caitie of B.mborough, where he was kept affer the will: fo much privacy, $t$ ! at for fome time it was net batale.
known where he was, or that he had been taken prifoner. As foo: as the trath was known, the quecn of En i.s: 1 demas ied the royal prifuner from Copeland; Uu' the latter poitiv..ly refufel to part with him even to he queen, unlels ge coold prodace an order to that F' rtict under Luwar..'s hand and feal. This refolote behaviuur was rell ned by the zueen, and a complaint male to the King; in confersence of which Coptland was fummonct to appear before Edward, after having zefigned David to the cuftody of Lord Nevil, The

Englifh monarch, at that time in France, approved of Scotiard. all that he had done, rewarded him with 500 l . a year, and fent him back to England with the honour of knightliood. David was then efcorted by Copeland, attended, it is fard, by 20,005 men, from the calle of Ogie in Nortliumberland, till the Lord Neril, by indenture, celivered hin into the hatids of Sir Thomas Rokeby theriff of Yorkhire. In the farse fompous mannet he was conducted all the way to London, which he entered on a black courier. He was received in the capital with the greatelt folemnity by the lord mayor and other magiftra:es, the city-companies under arms lining all the tireets through which he paffed, the houles loaded with fpectators, who expreffed a generous concom for his captivity. Being arrived at the Touer, he was delivered, by indenture likewile, to the cuftody of the conilable, the Lord John Darcy, on tbe 2 d of January 1347 .

Baliol now, encouraged by the misfortune of his ri-Baliol val, made an effort once more to eftablift himielf on mahes aro. the throne of Scotland; and before the end of the year therm at on recuced the cafles of Hermitage and Roxburgh, the ${ }_{11}$ - crown foreit of Ettric, the Merie, with the diliricts of Annan- ot Scitiard. dale, Teviotdale, and Tweeddale. The Scots continued faithful to the caufe of their king, notwithlanding his misfortumes, and chofe the Steward for the guardian of the kingdom. He behaved with a prudence equal to the high fation which be filled: but the progrefs of Baliol was fo rapid, that it is fcarcely probable he could have maintained his ground, had not Edward again confented to a truce; which, however, feems to have teen ill ohferved on the part of tiee Scots. In fact, though both Scots and Englith histerians ate ficnt as to particulars, we find, that about the end of the year 1348 , all Scotland was recosered out of the hands of the Englifh ; excepting Berwick, Roxburgh, Hormitage, The Scots and Lanric, which was part of Baliol's hereditary eftate, recover the and defended ly him with an army. The Scots hilto-gieareft rians inform us, that the Englifh, in revenge for the da- jart of their mases done to their country by the breach of the feace, An. $13+5$ preclaimed a tournament and other military eactcifes at Berwick, to which they invited the Scots; but in their way thither the latter fell into an ambufcade, and were all su:t in piecec.

The years $13 \neq 9$ and 350 were rematkable only for Scotiand a dreadful plague which irvaded Scotland, after having infcted ravaged the contirent of Europe. According to For- with a dun, ore-third of the people of Scotland perinhed at this dreadful time. The patient's fiefh frelled exccedirgly, at d le An. I? 49 died in two days illnefs; but the mortality affected clief- to 1352. ly the middiing and lower ranks of perfle. The fame dreadful calamity continued throughont the years 1351 ard 1352 ; occ: fioning a ceffetion of arms not cnily in Scotland, lut throrgheut all Europe.

All this time Kirg David remained a prifoncr in England; for though feveral treaties had been propofed, they had hitherto come to nothing, becaufe the Englith monarch infiffed upon being indemnified for the ravages which the Scots had comnitted in histerritories. At laft it was agreed, that the king of Scotland licu'd be irmediately fet at liber! y, on paying $90,0 c 0$ mesks for perms pros his ranfom, by equal profortions, within the face of eafe of the nine years: That 10,000 merhs, being the firf propor- Scottifh moo narch. tion, fhould be paid at the feaft of Candemas next to
come, the ficond at Candlemas 1357 , and focn till com-

## 5 C 0

plete payment thould be made of the whole: That, during the faid face of nine years, there thould be a truce between the two kingdoms: That 20 Scots gentlemen, of the beft families in the kingdom, frould remain in Englend as hoftages and fureties for the faid fum; and that, if any part thereof was not paid at the precife time appointed, then David thould remain a prifoner in England till it was paid; or, if he was detained by any juit caufe, that the 1 id high fleward, the lord Douglas, John of the Itles, and others of the highell rank, thould 274 come and fupply his place.
Rejectedty Thefe terms wire rejceted by the Scots nobility; and, the nobili- in 1355 , war was recommenced wih England, at the recommen- inftigation of France, who fent 40,200 crowns to Scotced. land as a fupply for defraying the expeaces.
An. $1355^{-}$
With this fum the guardinn, having raifed any army, once more took the field; but not before the Enghfl that deftreyed the Lothions and Duglud...le. A battle was fought on Niffit-moor: in which the Engith being drawn into an ambufcade, were totally tefea.ed.
275 The next attempt of the Scots was againit the town of Berwick Berwick, which they defigned to furprife by an elcataken by the Scuts. lade. They met, however, with fuch a vigorous refilance, that many perfons of dittinction were killed. The attack proved fuccefsful; but the acquifition was of no great impartance, as the caftle ftill held out. Edward, in the mean time, hearing of the lofs of the town, hurried back from France to London. Here he ftaid but three days, and marched northward to raile the fiege. He reached Dirham on the 231 of December r355, fame $4^{\text {th }}$ of the fame month he arrived before Berwick, which was inftantly retaken; but the Scots were allowed to dcport for their own country. The reduction of this place produced an extraordinary effect: for Biliol now perceiving that Edward meant not to eitablifh him on the throre of Scotland, but to retain in his own pofief. fion as many places of that country as he could, came at latt to the refolution of giving up to the king of England the whole of Scotland. This indeed was no more than a form, becaufe at that time ie was not pofperformed at Rosburgh; and Buiol prefentid hie crown and fome earth and fones by way of inveltiture. Baliol in return was to liave a revenuc of 2020 puands a-year; and as Edivard was at the head of an excellent armv, he had little doubt of being able to force the Scols to fubmit.

The aftairs of Scotland were now in a very critical fituation; and it was neceflary to gain time. For this reafon Edward was amured with a negociation; and to this be the mose willingly littened, as he was at that time wailing for his fleet, from which lie had great ex-
ceive provifions all the way from his feet; for the Sectlan Scots had dcfolated the country through which he paffed. During his march his army was haraffed, and his foragers cut off, fo that he was reduced to diftrefs; and at laft his fleet being toinlly deftroyed by a florm, But is oblin he was obliged to return to England without accomplifi-ged to reing any thing. turn with-
In the mean time the prince of Wales, who had been out accorsplafling any left by his father to carry on the war in France, de- thing . feated and took prifoner John king of France at the battie of Poictiers. In this battle were 3000 Scots, who had gone over as auxiliaries to the French monarch, aird who iuffered extremely. However, the fuccefs of Edward, inftead of rendening him haughty, fecmed to hure a contraly effect ; and, by the mewation of If;e Innocent \& truce for two years was concluded uith Frasce, in whech tle Scots were comprehended. Du- 280 ring this interval, th.c ranfom of the king of Scois was Davill uhfetiled at 100,000 merks to be paid in ten ycars; for tains his liwhich 20 koftages were to be given as formenly. In berty. confequence of this treaty, David at laft oltained lis li- An. $135^{8}$. berty in 1358 ; and Edratad laid afide all hopes of ever fubduing Scotland. As for Baliol, he was now funk in oblivion; and it is not known what became of ljim, or when he died.

Davic, though now refored to liber:y, found 1 limfif fsembarras. greatly embarrafed with the payment of fuch a large ${ }^{\text {fid by by ine }}$ fum as had been fipulated for his raniom; the king dom pay mistim. of Scotland being then in a moft miferable and exhout-fom. ed fituation. After leading his queen, and going i.to England himfelf, he could obtain no greater favour than a refpite of a fers months for the pument of the fecond moiety; fo that he was at laf conftrained to aft affifance from France. This could farcely be expeted in the diltrefled fituatich of that kitgdom ; however, it was at laft agreed, that 50,000 marks fhould be paid to Scotland, in eife the Scots would confent to renew the war the following year. Neither party, however, kept their word; and David, being fill greatly ditteffed about the remainder of his ranfom, at laft entered into a very extraordinary negociation with Edward, by which he confented that the king of England fhould be his fuccefor to the throne of Scotland. But this negociation was defeated through the invincible hatred which the Scots bore to an Englifh governor. David then, being entirely unable to difcharge the remainder Enters into of his ranfom, was obliged to enter into a neve treaty ; a new trexby which the kingdom of Scotland became iadebtejty with E:tto Edward the fum of 100,000 pounds Sterling, to be ward paid by equal proportions within the fpace of 25 years, during which there flould be a truce between the two siations.

From this time we meet with little more of any moment in the reign of King David. Aitur the dcath of his queen Johanna, the fifter of Edward, he married a Scots woman, of mean birth, named Marearet Logie ; hut by neither of his wives had he any children. Queen Margaret he divorced, on what pretence is not known ; but the lift the hingdom, and complained perfonally to the pope, who tieated her as David's lawful wife, ard enjoined her huband to receive her as fuch under the $\hat{H e}_{2}^{2} 8_{3}$ moft fevere penaltics. What effect thefe threats had on and is fin: the king is not known ; but it is certain that Margaret ceeded by never returned to Scotland; and, on the 22d of Fe-Robert bruary $\mathbf{1 3 7 1}^{1}$, David himfelf died, lowing the kingdom Secwart.

## $\mathrm{S} C \quad\left[\begin{array}{lll}6 & 6\end{array}\right] \quad \mathrm{S} C \quad \mathrm{O}$

Sc :land $\underbrace{\text { S. }}$
to his nephew Robert Stewart, the firft of that family who fat on the throne of Scotland ( $\kappa$ ).

Some authors tell us, that at the acceffion of Robert II. his title was difputed by William earl of Douglas. If any wheh claim was preferrad, an affembly of the itates fet it afide, and it was relolved that Robert fly uld be crowned at Scone; and to take away for the future all difputes concerning the fucceflion, a particular act was framed, by which the kingdom was fecured to R obert and his heirs.

The new king being thus eftablified on the throne, endeavoured to renew the war with the Er gliih, in order to recover from them the town of Berwick, and fome other places on the borders. In this, however, he failed; and as $56,0=0$ pounds of David's ranfons ftill remsined unpaid, Robert bound himfelf to difcharge it at the rate of 4000 merks every midfummer. He then propofed an alliance with France; but the terms demaided by that kingdom being, that Scotland fhould be obliged to make war with England whenever France thould require it, Robert could not by any means be induced to confent to fuch a requifition, which would have obliged him to break through the moft folemn treaties, whenever the king of France fhould think proper to break with England. A new treaty, therefore, was entered into, by which it was provided, that neither S otland nor France fhould be obliged to make war vith England; and by another claufe, that the dif1: nfation ir authocity even of the pope himfelf thould niev r free the kinss or kingdoms of France and Scotla.mit from the obligations they lay under to affit one inother, as often as required, in oppofition to the kingdom of England. In cale of a competition for the (rown of Scotland, the king of France and his heirs :sere to take care that no Englifh influence was ufed; but that the matter being by the greateft and beft part of the nation decided conformably to the laws and efta$t$ ifhments of Scotland, he fhould with all his power delend and alitit the perfor fo entablihed. Lafly, it was siriced that no Fiencliman flould ever henceforth ferve whages, or othersife, againit Scutland, nor any ScotfHivク asainft France.

This lat article occafioned a recal of all the Scots from the Englith armies, which Edward looked upon to se a prelude to an invafion. He accordingly iffued writc for affembling ail the militia in the north of England. Al this time there fubfifted between the neighbouring reople of both nations an invincible hatred, which c.: ended not only through the lower ranks, but had perraded the higher clafes alfo. The inhabitants of the b.rdels, indeed, if very litle regard to the orders of itele refestive fove igns; fo that ditly hoftititics were conmin od by them upin each other when there was pear - between the fovercigns. The inhabitants of thefe colulics had e:tablinf $d$ with one another certain convent ins, which have fince been coll Aed, and go by the name of the Borver-laws. The families of Doug$j \vee a r d P \quad \gamma$, whofe ellates liyy conti, uous to one an$0!$ ! r. is in at $\Gamma \quad r=1$ vatiance. It had been cusem n for the 1 , orderers of $b$ th kingdoms, duri: $g$ a trice, to fre futnt each oihers fairs; and a fers.ant of the call of

March had been hilled in a fray at that of Roxburgh, Sc-t.arct. which was ftill in the hands of the Englifh. Jultice for this murder was demanded from Lord Percy ; but he flighted the complaint. On this the earl of March, with his brother the earl of Moray, affembling their followcre, entered the next fair that was held in Roxburgh, plundered and burnt the town, and killed all the Englifh who fell into their hands. The Englifh borderers were ordered to lay wafte the lands of the earl of March; but, in their way thither, deftroyed the eftate of Sir John Gordon, a man of great property in the fouth of Scotland. Sir John in his turn invaded England, from whence he drove off a large booty in cattle, and a number of prifoners. In his retreat be was attacked by a body of frefh troops under Sir John Litburn, at a place called Caram. An obftinate encounter followed. The Scots were five times repulfed; but at laft they renewed the charge with fuch fury, that they made Lifburn, his brother, and feveral other perfons of diftinction, prifoners, together with all their furviving foldiers. On this Lord Percy with 7000 men encamped at Duns, in the fouth of S:otland; but was obliged to retire, probably for want of fubfiftence for his army. In the mean time, Mufgrave, the governor of Berwick, who had been ordered to join Percy with a detachment from the garrifon, was on his march intercepted, defeated, and taken prifuner by Sir John Gordon; after which the border war became general on both fides. The iffue of thefe difturbances is but little known ; however, in 1377, we find them raging with more violence than ever. The fair of Roxburgh was once more the fcene of action, and the town was again burnt by the Scots. Lord Percy, who was now earl of Northumberland, refolved to take fignal vengeance. He ravaged the Scots borders, particularly the earl of March's eftate, for three days, at ${ }^{2} \$ 6$ the head of 10,000 men. Some time after this, the Berwick Scots infurgents became powerful enough to furprife taken and Berwick; which, however, was quickly retaken by the retaken. Englifh, who foon after invaded Scotland. In this expedition, however, they fucceeded fo ill, that Percy thought proper to defit from his expedition. The Scots in the mean time began hoftilities by fea, under one Mercer, an experienced failor ; but he had the miffortune to be takien prifoner by the Englifh, with all his ficet. In 1379, England was afflicted with a dreadful plague, of which the Scots took advantage to invade the country, The Englifh hiftorians tell us that they behaved with the utmoft barbarity, hilling and plundering the defencelefs inhabitants without mercy.

This predatory war continued, generally to the dif- An. 1380 advantage of the Englin, till the beginning of November 1385 , when a truce was concluded, to continue for a year ; which, however, related only to the borders. This truce, like the others, was but very indifferently obferved; fo that, in ${ }^{1} 383$, new negociations were fet on foot: but, in $1^{8} \frac{4}{4}$, the war was renewed with greater fury than ever. In the fpring, the earls of Narch and Douglas took the caftle of Lochmaben, and intercerted a rich convoy which the Englifh were ferdirg R. 'urgh; burnt to the ground the caftle of Wirk,

## S C O

Se shand: and commitied fuch devaftations in the north of Eng. land, that feveral gentlemen offered to rcingn $t$ eir ellates to King Richard, becaufe they were not able to defend them againft the Scots. The duke of Lancafler cntered Scotland at the head of an army; but the inhabitants had removed every thing valuable, to that he marched on to Edinburgh without accomplining any thing of confequence. Oa his return, he was haratied by tising parties of Scots, who delfroved a confiderabl-number of his men. This year allo the French fent a body of auxiliaries into Scotland. The earls of Northumberland and Nuttingham entered Scotland with an ammy of 10,000 horfe and 6000 archers; but retired, after having committed fome devaltations in the fouthern counties. The Scots revenged themfelves by laying watle all the northern part of England to the gates of Newcaftle. Berwick was taken by the Scuts, and foon after furrendered for the fum of 2000 merks. A truce was then, as ufual, concluded; but in the mean time King Robert was meditating a moff fevere blow againft the Englif.

The duke of Burgundy having come to the poffefion of the eftate of his father-in-law the earl of Flander, claimed the fovereignty of the town of Ghent; but they refufed to fubmit to him, and in this refufal were protected by King Richard II. of England. On this the duke of Burgundy propofed to the French court to invade England in concert with the Scots.-This being agreed to, a fleet was fitted out at Sluys; on board of which John de Vienne, the French admiral, embarked, carrying along with him 50,000 pounds in gold, which the duke of Burgundy advanced in order to be diftributed in Scotland, where the admiral arrived fafe with a confiderable reinforcement, together with fupplies of all kinds of military flores. Two thoufand auxiliaries, of whom 500 were men-at-arms, arrived with this Heet; and 400 fuits of complete armour were brought along with them, in order to be ditributed among the bravelt of the Scots.

The Scots were for a flort time clated with the great attention which had been paid them by the French king; but, in the mean time, the Flemings having revolted, the French abandoned the Scots to fuitain the whole weight of the Englifh refentment, that they themfelves might emyloy their arms in Flanders. King Richard took the field with a more numerous army than had ever been muftered in Eigland before. Hoftil ties were begu: by the Scots, who, according to cuftom, invaded the noithern parts of Eng'and, and carried off a confiderable booty : however, in their retreat, they were in $t^{\text {' }}$ e utmoft danger of being cat off by the duke of Lancaiter, w'.o had been fent with an ann:- to intercept them. The E. glifh army proceeded northwards; but could accomplith nothing, on account of the country b-ing defulated, till they came to Edinburgh, which they laid in 2 h s. Being, however, inceftintly haraffed -y parties of the enemy, they were oblighd to retrea:
 vhen, asor a in ? to.ce, tho war vers role ved with

 $\because$ !ale $\dot{d}=1$ a purtr of $3=\frac{3}{r}$ ? ; after whic's

of which had inf late been very active agaiaft the Scots. Scotland. In 13 S8, D uglas ostained permiffion to raife a body of forces for this nw:lion; and having landed in fafety, de eated the lrith, plundered the town of Carlingford, and loaded 15 ftips with the booty. From thence the Scots filed to the ifle of Man, which in litie manner was plundered and laid wate ; after w' ich they returned with their boo y to Loch Fian in Scotland.

Encouraged hy this fuccefs, Rohert determined to Engun! proceed on a m c enlarged plan. Having aitembled a invacerd by parliament at Aberdeen, a double invafion of England armessats was relolved upon. Two armie, were raild; the one ${ }^{2}$ confilting of $25,000 \mathrm{mc}$, comin nded by the earls of Mentieth and Fife, Douglas lord ot Gallowiy, and Alexander Lindiay; the other army, conlifting of the likenumber, was commanded by the earls of Douglas, March, Crawford, Moray, the lord high conilable of Scotland, and other perfons of dillinction. The forme: entered Cumberland, and the latter Northumberland, both which countries they laid walte, and both armies were to meet within ten miles of Newcalle. The Englith were thrown into the greateft conifernation. Newcartle was defended by the earl of Northumberland, whofe age and infirmities rendered him incapable of tzking the field; but his place was abund..ntly fupplicd by his two fons Henry and Ralph, the former of whom is known in Englith hiftory by the name of Hot/pur. The town was gartifoned by the flower of the Englifh nobility and gentry, as well as the inhavitants of the adjacent countries, who had tled thither for refuge. Duuglas felected 2000 foot and 300 horiemen out of the two armies, and encamped on the north fide of the town, with a view, according to the Scots hiftorians, of ftorming it next day. In the mean time, he was chal- Single $\mathrm{c}_{\mathrm{F}} \mathrm{T}$ lenged by Hotfpur to fight him hand to hand, with ba. ${ }^{\text {bive. }}$ Siarp ground fpears, in fight of both armics. Douglas Lat. Douaccepted the challer e, and Percy was unhorfed the it my Pesa firf encounter, and obliged to the refuge within the portcullis or gate of the town; from whence Dougl-s brought off his antagonil's lance, with a pennon affixed to it, and livore in his hearing that he would carry it into Scotland. Next day Duuglas attempted to form the town ; but, being repulled in the attack, he decamped in the night. Percy, breathing furious revenge, purfucd and overtook the Scots at Otterburn. His arrival was quite unexpected, fo that the principal commanders of the Scottith army were fitting down to fupper unarmed. The foldiers, however, were inflantly Burne of prepared for battle; but in the hurry neceffarily attc d. Oito bus. ing a furprife of this kind, Douglas forgot to put o: his cuiral: Both leaders encouraged their men by the mort animating (peeches; and both partics waited for the rile of the moo., which happened that night to be unufu ? ly bright. The battle being joined on the moon 's f $t$ appearance, the Scots began to give ground ; but, being rallicd by Douglas, who f ught with a bat:le-axe, the Englith, though greatly fupenior in number, "ere tot:lly ruased. Twelve hundred ware killed on the foot; and 100 perfons of diftinction, among whom were duentthe two Percies, were made prifoners bs Kith ma D richal of Scolland. On the lite of the Scots the ${ }^{2}$.at. greatertos was that of the bresse Easl D. Las, who wor killed in cosilequexce of gining to ! Il without lis artmour, as avove rclated. It was til lingoc -


Scotiand. bat ostween Douglas and Percy, and the fublequent $\xrightarrow[\sim-\text { battle, which gave rife to the celebrated battle of Chevy }]{ }$ Chace.

In the mean time :he bithop of Durham was marching towards Newcafte with an army of 10,000 men; but was informed by the runaways of Percy's defeat, which happened on the 21 f of July 1388 . In a council of war it was refolved to purlue the Scots, whom they hojed eafily to vanquith, as being wearied with the battle of the preceding day, and laden with plunder. The eatl of Moray, who commanded in chief, having called a confultation of his officers, refolved to venture a battle. The priloaers were almof as numerous as the whole Scots anny; however, the generals required no more of tixem than their words of honour that they ihould continue inadtive during the battle, and remain prifoners tilll. Whis condition being complied with, the S=cts diew out their amy for battle. - Their rear was fecured by marthes, and their flanks by large tiees which they had telled. In fhort, their appearance was fo formidaile, that the Englith, dreading to encounter a refolute enemy fo itrongly fecured, retired to Newcaltle, leaving the Scots at liberty to continue their march to their own country.

Robert being now opprefled with age, fo that he could no longer endure the fatigues of government, the adminillration of affairs devolred on his fecond fon the earl of Fife; for his eldeft fon was by nature indolent, and befides lame by an unlucky blaw he had received from a borfe. Early in the fping of 1389 , he invaded England with fuccels: but the lame year a trnce was concluded, to latt from the $19 \mathrm{th}^{2}$ of June $1-389$ to the 16 th of Auguft 1392 ; in which the allies of both crowns were included. This truce was violently oppofed by the nobility, who fufpected their king of being too much under French influence. Upon this the court of France thought proper to fend over ambaffadors to parfuade the the nobility to comply ; informing them, that in cafe of a refufal, they could expect no alfitance either of mon or money from the contineat. With dificulty they prevailed, and peace between Enyland and Scotland was once more reftored. Scarcely, however, was this truce finithed, when the peace of the nation was moft fcandaloufly violated by Robert's fourth fon Alexander, the earl of Buchan, commonly called the wolf of Badenoch, from his favage ditfofition. This prince having a quarrel with the bilhop of Nurray, burnt the fine cathedral of Elgix, which has been called by hiforians the lanthorn and ornament of the north of Scotland. I'ke king for this crime caufed his fon to be imprifoned; and a cisil war would have been the confequence, lad it not been for the reneration which the Scots retained for their old king. However, they did not long enjoy their beloved monarch; for he died on the 19th of April 1390 , in the $75^{\text {th }}$ year of his age, and the 19 h of his reign.

On the death of Robert II. the crown devolvert upon his eldeit fon John; but the name being thought tunlucky in Scutland, he changed it for that of Robert, thou; h he was ftill c:lled by the commonaly kobert John Fernzier. He liad been married to Aimabella, the daughter of Sir John Drummond, ancelior to the noble f.mily of Perth: and was crowned along with his confort at Scone, on the 13 th of Auguft 1390 . He f. '... ed the tuluce which had been entered into with

England, and renewed the league with France ; out Siotland. the beginning of his reign was difturbed by the wars of - $\quad 204$ the pelty chieftains with each oti.er. Duncan Stewart, RebeLion fon to Alexander earl of Buchan, who liad died in pri- .f the eart fon for burning the cathedral of Eigin, affem.bling his oi Buctran. followers under pieterice of revenging his father's death, laid walte the councy of Angus. Walter Ogilvy, the fheriff of Angus, attempting to repel the invaders, was killed, with his brother and 60 of their followers. The king then gave a commifion to the earl of Crawford to fupprefs them; which he foon did, and moft of them were either killed or executed. The followers of the earl of Buchan were compofed of the wildet Mighlanders, dillinguithed by the title of Catterenes, which ant 295 fisers to that of banditii. That fucb a race of people the Gat of exilled is certain from the records of Scotland; but it is reres. not eafy to determine how they obtained their fubfittence, being void of the knowledge of ayriculture and of every civil art. There is fome reaton to believe that many of them came from the Wetern ifles; and that they or their anceftors had cmigrated from the eaftern parts of Ireland. The lands which they inhabited were never cultivated till towasds the middle of the 17 th century; and, according to the mof authentic accounts, they lived entirely upon animal food.

The earl of Crawford's fuccefs againft the follorrers of Buchan encouraged S.obert to intruft him with a commiffion for fubduing other infurgents by whom the peace of the country was difturbed. The moft remark-Battle beable of thefe were the Clan Chattan and Clan Kay. As tween the both thefe tribes were numerous and brave, Crawford champions was not without apprehenfions that they might unite of the clan againd him as a common enemy, and defeat him if Chattan atiempted to fupprefs them by force. He propofed, Kay. therefore, that the two rival clans fhould each choofe 30 men, to determine their differences by the fword, without being allowed the ufe of any other weapon. The king and his nobility were to be fpectators of the combat; the conquered clan were to be pardoned for all their former offences, and the conquerors honoured with the royal favour. This propofal was readily accepted by both parties, and the north inch of Perth was to be the fcene of action. But, upon muftering the combatants, it was found that one of them, belonging to the clan Chattan, had abfented himfelf. It was propofed to balance this difference by withdrawing one of the combatants from the clan hiy ; but not one of them could be prevailed on to refign his placc. At laft one Herry W'ynd, a faddler, though no way connected with either party, offered to fupply the place of him that was abfent, on condition of his receiving a French crown of gold (about 7s. 6d. of our money) ; wbich was immediately paid him. The combat then began with incredible fury ; but at laft, through the fuperior valour and fkill of Henry Wynd, victory decla* red in favour of the clan Chetlan. Only ten of the conquerors, befides Wynd, were leit alive ; and all of them defperately wounded. Of the clan Kay only ono remained; and lie having received no hurt efcaped by fwimming acrofs the Tay.

While thefe internal broils were going on, the truce which had lately been concluded with England was to ill obferved, that it became neceffary to enter into frefli negociations. Thefe, like others which had taken place before, had very little effect. The borderers on both

## S C O [ 639 ] S C O

seotland. fides had been fo accullomed to ravage and plunder, that they could not live in quiet. King Robert allo was thought to be 100 much attached to the king of
257.

Title of
duke intro duced into S.otiand.

An. 139 s. England. He had introduced the new title of dise, which he beitowed firtt on the prince royal, whom he created dake of Rothetay; but making an ofier of that bonour to one of the heads of the Douglas family, it was rejected wish didain. That powerful family had never loit Gight of an ancient claim they had upon the callle of Roxburgh, which was ftill in the pofiettion of the Englith; and this year the fon of the earl of I) usglas, Sir William Stewart, and others, broke down the bridge of foxburgh, plundered the town, and defroyed the forage and corn there and in the neighbouring country. The Englikh applied for fatisfaction; but obtained none, as the confution which involved the hingdom by the depofition of Richard II. and the accelfion of 1Ienry IV. prevented them from having recourfe to arms, the only argument to which the Scots patrioss in thofe days would liften.
An. ryoz. No loo:ier was the calndrophe of Richard known in Scotiand than they refolved to avail them!elves of it; and invadin,s the north parts of England, demolithed the caitle of Wark, and laid the neighbouring comstry tader contribution. 'The fituation of Henry's affairs did not adurit of his refemting this infult. Ho contented himfelf with nominating the earl of Veitmoreland, to treat with the Scots about a truce or peace; or, if that could not be oblaised, to make a mutual agreement, that the towns of Dumtries in Scotland, and Pearith in E $1 \%$ land, thould be free from hoftilities during the war. To this propofal the Scots pail no regard; and being encouraged by the court of France, who refented the depofition of Richard, they renewed their ravazes in Eigland. In $J+00$, the kino of England called a parliament, in order to confu't on the moft proper means of repelling the Scottin invations; and in this he was greatly affited by the divifions of the Seots among themfelves. The duke of Rothefar, the heir appazent of the crown, was notv grown up to man's eftate, and

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Merce:ia behavit ur of Rolerer with rezard to his fon's marriage.
before the marriage was celebratel, March demanded that the money be had advanced thould be reimburfed; but receiving an unfatisfactory anfwer, he declared, that as the king had not fulfilled his bascain, he would bring unexpected calamiies upon the evuntry. -locordingly he fled into England, leaving his caltie of Dewbar to the cuitody of his nephers liobert Nt:itland, who foun after put it into the liands of the eanl of Deugias, caiic 1 in litiory Archibald the Grim, from the fternsefs of his vifage.

As foon as Robett heard of the revoit of the $e \div t 1$ of Narch, he fent ambatidors demandiry back his fubject; but the requeft was difregarded. On the other hand, the earl of March dimanded reroffetren of the cafle of Dunbar, pleadirg, that he had committed no act of treafon, but hal come to England under a fafe conduct from King zIenty, on purpole to negociate his private affairs: but this requelt was difregarded ; on which be fent for all his family and followers to England, where they joined him in great 3 eo numbers. This produced a war between the two king. Invation of doms. The earl of Warch, with Henry Percy fur- Sce cland hy narocd Mot/pur, invaded Scotland, penetrating as far Henry Pesas Iaddington, and carrying off great numbers of the inhabitants into captivity. Thence they went to Pechles, and then to Linton, ravaging the country as they pafied along. They next benieged the catile of Hales, and took feveral of the neighbouring Gorts; but Irchibald the Grim, or rather his fon, having raifed an arny agairif them, they were ftack with terror, and fled to Berwick, to the gates of which they were purfued by the Scots. At this time the Scottifl admiral, Sir Robert Logan, was at fea with a fquadron; but mifca:ried in in attemot he razde on fome Englith thips of war that protected their flcet while fiking on the coaft of Scotlat:d. After this the Engiih plundered the Oikney illands ; which, though belonging to the c:own of Norway, were at that time governed, or rather farmed, by Sinclair the Scots earl of O-kney and Caithnefs.

All this time the earl of Narch continucl un? ?cr the protection of the king of England. He had reccived repeated invitations to return to his allegiance; but all of them being rejected, he was prochimed a traitor ; and the Sentifh governor made a formal demand of him from King Henry. W::h this the latter not only refuled to comply, but renewed his league with the lord of the ines. He pretended alfo, that at this time he had intercopted fome letters from the Scottion regency, which ca:led him "t a traitor in the ligheiz decree;" and he aileged this as a reafon why he pro tected not only the earl of March, but the lotd of the ines.

On the 2 th of July :y 5 , the earl of March renounced his homage, fealty, and fervics, to the king of Scotland, and transferred them to Henry by a formal indenture. For this the earl was rewarded with a perfion of 500 merks fterling, and the manor of Clipeftone in Sherwood forelt. Henry now began to revive the Hearylv. claim of homage from the birgs of Scotland, and even projects the to meditsie the conquett of the kingdom. He had in-corquelt of died many reafors to hope for fuccefs; the principal of Scotakd. which were, the weakreels of the Scottih government, the divided itate of the royal family, and the diffenfions among the chief nobility. For this furgofe he made
great preparations both by fea and iand ; but before he let out on his journey, he received a letter from the duke of Rotheiay, full of reproaches on account of the prefumptuous letters which Henry had addrefied to Robert and his nobility. The letter was addreffed by the duke to his adverfary of England, as the Scots hal nct yel recognized the title of Menry to the crown of In jlatid. Towards the end of it the duke, according to the cuttom of the times, defired Henry, in onder to avoid the effufion of Chrittian blood, to fight him in perfon with two, three, or a hundred noblemen on a fide. But this challenge produced no other anfwer from Henry, than that "he was furprifed that the duke of Rothefly fhould confider noble blond as not being Clirizian, fince he defired the effufion of the one, and not of the other." Henry arrived at Leith on the very day on which he had appoisted the Scottifh nobility to meet him and pay their homage, and conclude a peace between the two cromns. In sil probability, he expected to have been joined by great numbers of the dificont-nted Scots; and he flattered the Englifh with a promile of raifing the power and glory of their country to a higher pitch than it had ever yet known. Under this pretext, he feized on the fum $0\{350,000$ pounds in ready mon.r, befides as much in plate and jewels, which had been left by Richard in the royal treafury. He raifed allo vaft contributions on the clergy and nobility, and on the principal towns and cities. At laft, finding that neither his valf preparations, nor the intereft of the earl of March, had brought any of the Scots to his itandard, he laid fiege to Edinburgh caftle, which was defended by the du'ie of Rothelay, and, as forme fay, by the earl of Douglas. The duke of Albany, brother to King Robert, was then in the feld with an army, and fent a letter to King Henry, promifing, that if he would remain where he was for fix days, he wo:i'd give him battle, and force him to raife the fiege, or lofe his life. When this was written, the duke was at Calder muir; and Henry was fo much pleafed with the letter, that he prefented the herald who delivered it with his upper garment, and a chain of gold ; promifing, on his royal word, that he would remain where he was until the appointed day. On this occafion, however, the duke forfeited his honour; for he fuffered fix days to elapfe without making any attempt on the Englifh army.

Henry, in the mean time, puffed on the fiege of Edinburgh caftle; but mot with fuch a vigorous refiftance from the duke of Rothefay, that the hopes of reducing it were but fmall. At the fame time he ras infirmed that the Welth were on the point of rebellion under the famous chieftain 0 en Glendower. He knew alico that many of the Ençlifh were highly diflatisfied with his tit'e to the crown ; and that he owed his peaceable poffethion of it to the moderation of Mortimer, alfo called the e.rl of March, who was the real heir to the mfor untle Pichard, but a nobleman of no am'i. tion. Tor thete reafons he concluded it bef to raife the fiege of Edinburgh cafle, and return to England. He then agreed to a truce for fis wecks, but which was afterwards prolonged, probably for a yerr, hy the commiffioners of the two crowns, who met a: Kel?o.

In $1 \neq \mathrm{I}$, Sc tland fuffered a great lofs by the de th of TValter 'T ail, the aro bifhon of St' Indrew's, a moit
exemplar, forbin, and a perfon of great infleence. Arclitbald Sou is the Grim had died fume time before, and hi! lofs was now feverely felt; for the king himfelf, naturally feeble, and now quite difabled by age and infirmitiee, was fequeftered from the world in fuch a manner, that we know not even the place of his refidence during the laft invafion of Scotland by the Englifh. This year alfo Queen Anabella died, fo that none remained who were able to heal thofe divifons which prevailed among the royal family. Robert duke of Albany, a man of great ambition, was an enemy to the duke of Rothefay, the heir-apparent to the crown; and endeavoured, for obvious reafons, to imprefs his father with a bad opinion of him. This prince, however, appears to have been chargeable with no mifdemeanour of any confequence, except his having debauched, under promife of marriage, the daughter of William Lindfay of Rofly. But this is not fupported by any credible evidence; and, though it had been true, could never have juftified the borrid treatment he met with, and which we are now to relate.

One Ramorgny, a man of the vileft principles, but Conf 303 an attendant on the duke of Rothefay, had won his agatuit rae confidence ; and, perceiving how much he refented the duke of Roo conduct of his uncle the duke of Albany, had the vil- thefay, lany to fuggeft to the prince the difpatching him by affalfination. The prince rejected this infamous propofal with fuch horror and difpleafure, that the villain, being afraid he would difclole it to the duke of Albany, informed the latter, under the feal of the moft inviolable fecrecy, that the prince intended to murder him ; on which the duke, and William Lindfay of Rofly his affociate in the treafon, refolved on the prince's death. By practifing on the doating king, Lindfay and Ramorgny obtained a writ dircated to the duke of Albany, impowering him to arreft his fon, and to keep him under reitraint, in order for his amendment. The fame traitors had previoully poffeffed the prince with an apprehenfion that his life was in danger, and bad perfuaded him to feize the caftle of St Andrew's, and keep poffeffion of it during the vacancy of that fee. Robert had nominated one of his baftard bretbren, who was then deacon of St Andrew's, to that bifhopric: but being a perfon no way fitted for fuch a dignity, he declined the honour, and the chapter refufed to elect any other during his lifetime; fo that the prince had a profpect of poffelling the caftle for fome time. He was riding thither with a fmall attendance, when he was arrefted between the towns of Nidi and Stratirum (according to the continuator of Fordun), and hurried to the very cafle of which he was preparing to take poffeffion.

The duke of Albany, and the earl of Douglas, who was likewife the prince's enemy, were then at Culrofs, waiting the cvent of their deteftable confpiracy; of which they were no fooner informed, than they ordered a 3 r ng b body of rulfians to carry the royal capti e from the caltle of St Andeew's; which they did, after clothing him in a ruffet cloak, mounting him on a very forry horfe, and commitling him to the cuffody of two execrable wretches, John Selkirk and Juhu Wright, who werc ordered by the duke of Albany to flarre him to 3.4 death. According to Bushanan, his fate i \& for fomea o : time prol nyed by the compafion of one of 1 is keener's farced ts drughters, who thruf thin caten cakes through the icath.

## S C O [ 641 ] S C O

seotand. chinks of his prifon-walls, and by a woman who, being a wet nurle, found means to convey part of her milk to him through a fmall tube. Both thefe charitable iemales were detected, and put to death; the young lady's inhuman father being himelelf the profecutor. The prince himfelf died a few days after, on La-fter-cve, his hunger having impelled him to devour part of his own fleth.

In the mean time, Robert, being yet ignorant of the murder of his fon, had renewed, or rather confented to renew, hotilities with England. On the cxpiration of the truce, Henry had fent a commiffion to the earls of Northumberland and Weftmoreland, to offer the Scots any terms they could reafonably defire; but every offer of this kind being rejected, there was a neceflity for renewing holtilities. The earl of March had received another penfion from Henry, on condition of his keeping on foot a certain number of light troops to act againft the Scots. This had been done; and fo effectually did thefe now annoy their enemies, that the earl of Douglas was obliged to take the field agsinft them. By dividing his men into fmall parties, he repreffed the depredations of thefe invaders; and Thomas Haliburton, the commander of one of the Scottifh parties, made incurfions into England as far
f Bamborough, from whence he returned with a confiderable booty. Ihis encouraged another chieftain, Patrick Hepburn, to make a fimilar attempt: but being elated with his fuccefs, he remained too long in the enemy's country; fo that the earl of March had time to fend a detachment to intercept him on his return. This produced a defperate encounter, in which Hepburn was killed; the flower of the youth of Lothian, who had attended in this expedition, were cut off, and fcarcely a fingle Scotfman remained unwounded.

On the news of this difafter, the earl of Douglas applied to the duke of Albany for affiftance. He was immediately furnifhed with a confiderable army, according to fome, confifting of 10,000 ; according to others of 13,000 ; and according to the Englifh hiltorians, of 20,000 men. Murdoc, the fon of the duke, attended the earl on this expedition, as did alfo the earls of Moray, Angus, Orkney, and many others of the chief nobility, with 80 knights. The Scots on this occafion conducted themfelves with the fame imprudence as before. Having penetrated too far into the country they were intercepted by the Englifh on their return, and obliged to engage at a place called Homeldon, under great difadvantages. The confequence was, that they were utterly defeated, and almolt the whole army either killed or taken.

Henry Hotfpur, to whom chiefly this victory was owing, refolving to purfue the advantage he had gained, entered the fouthern parts of the kingdom, and laid
fiege to a caftle called Cocklawys, on the borders of Teviotdale. The caftle was for fome time bravely defended : but at lalt the governor entered into a treaty, by which he agreed to deliver up the caltle, in cafe it was not relieved by the king or governor in fix weeks; during which time no additional fortifications were to be made. But while the Englifh were retiring, one of Percy's foldiers pretended that the Scots had broken the capitulation, by introducing a mattock into the place. The governor, hearing of this charge, offered to fight any Englifhman who ftould engage to make it good.

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A champion was accordingly fingled out, but was defeated by the Scotiman; and the Englith army reti:ed according to agreement. The matter then being debated in the Scottifh council, it was refolved to fend relief to the caftle. Accordingly the duke of Albany, with a powerful army, fet out for the place ; but before he came there, certain news were received of the defeat and death of Hotfpur, at Shrewfbury, as rolated under the article Escland, $\mathrm{N}^{\mathrm{O}} 182$.

In the year ${ }^{1} 424$, King Hesry, exceedingly defirous An. 1424. of a peace with Scotland, renewed his megociations for that purpofe. Thefe, however, not being attended with fuccefs, hoftilities were ftill continued, but with. out any remarkable tranfaction on either fide. In the mean time, King Robert was informed of the miferable fate of his eldeit fon the duke of Rothefay; but was unable to refent it by executing juftice on fuch a powerful murderer. After giving himfelf up to grief, therefore, for fome time, he refolved to provide for the fafety of his fecond fon Jarses, by fonding him into France. This fcheme was not communicated to the o France, duke of Albany; and the young prince took Shipping解 with all imaginable fecrecy at the Bafs, under the care ...th. of the earl of Orkney. On his voyage he was taken by an Englifh privateer off Elamborough-head, and brought before Henry. The Englifh monarch having examined the attendants of the prince, they told him that they were carrying the prince to France for his education. "I underftand the French tongue (replied Henry), and your countrymen ought to have been kind enough to have trufted me with their prince's education." He then committed the prince and his attendants clofe prifoners to the tower of London. The news of this difafter arrived at the caftle of Rothefay in the ifle of Bute (the place of Robert's refidence) while the king was at fupper. The news threw Robers dies him into fuch an agony of grief, that he died in three fisief. days, the 29th of March 1405 , after having reigned ${ }^{\text {tn. }} 1_{405}$ nearly 15 years.

By the death of Robert, and the captivity of the prince, The duke all the regal power devolved on the duke of Albany, of Albany who was appointed regent by a convention of the regent. ftates affembled at Scone. The allegiance of the people, however, to their captive prince could not be flaken; fo that the regent was obliged to raife an army for the purpofe of refcuing him. Henry fummoned all his military tenants, and made great preparations: but, having agreed to treat of a final peace with Ireland and the lord of the Illes, the regent laid hold of this as a pretence for entering into a new negociation with the Englifh monarch ; and a truce was concluded for a year, during which time all differences were to be fettled. In confequence of this agreement, Rothefay, king at arms, was appointed commiffary-general for the king and lingdom of Scotland; and in that quality repaired to the court of England. At the time when the prince of Scotland was taken, it feems there exilled a truce, however ill obferved on both fides, fubfilting betweers the two nations. Rothefay produced the record of this truce, which provided that the Scots fhould have a frce navigation; and in confequence of this, he demanded juftice of the captain and crew of the privateer who had taken the prince. Henry ordered the matter to be inquired into: but the Englifh brought their complaints as well as the Scots; and the
cluims

Scotlend.


Schemes of Henry againt Scotiand. An. 1.4.0.

## 1

 1410, the war was renewed with England, and Ficnry prepared to ftrike a fatal blow which he had long meditaicd againgt Scotland. He had, as we have feen, entered into a league with the lord of the liles, where a confiderable evolution then happened. Walter Lefley a confuerable sevolution then happlened. Walter Leedey to the eftate and honours of the earl of Rofs, in right of his wife, who was the heir. By that marriage, he had a fon named Alexander, who fucceeded him; and a daughter, Margaret, who was married to the lord of the Ifles. This Alexander had married one of the regent's daughters; and dying young, he left behind him an only daughter, Euphane, who was deformed, and became a nun at North Berwick. Her grandfather, the regent, procured from her a refignation of the earldom of Rofs, to which fhe was unduubted heir, in favour of John earl of Buchan, but in prejudice of Donald lord of the ines, who was the fon of Margaret, fifter to the earl Alexander, and confequently the neareft heir to the eftate after the nun. Donald applied for redrefs ; but his fuit being rejected, he, with his brother John, fled into England, where he was moft gracioully received by King Henry. According to the mftruetions given him by the Englifh monarch, Donald returned to his own dominions in the ifes, where he raifed an army, and paffing over into Rofs-hire, violently feized on the effate in difpute. In a fhort time he found himfelf at the head of 10,000 Highlanders; twith whom he marched into the province of Moray, and from thence to Strathbogie and Garioch, which he hid under contribution. Advancing towards Aberdeen, with a view to pay his troops with the plunder of that city, which was then a place of confiderable trade, he was met by the earl of Marr, whom the regent had employed to command againf him, at a vil-312
Battle of Harlaw.
lage called Harlaw, in the neighbourhood of Aberdeen. A fierce engagement enfued, in which great numbers were killed on both fides, and the victory remained uncertain: but Donald, finding himfelf in the midat of an enemy's country, where be could raife no recruits, began to retreat next day; and the fhattered flate of the royal army preventing him from being purfued, he efcaped to his own duminions, where in a fhort time he fubmitted, and fwore allegiance to the crown of Scotland.

In the mean time, Henry continued the war with Scotland, and refufed to renew the truce, though frequently folicited by the Scots. He had now, however, fuftained a great lofs by the defection of the earl of March, who had gone over to the Scots, though the hifforians have not informed us of his quarrel with the Englifh monarch. On his return to Scotland, he had been fully reconciled to the Douglas family, and now firove to diftinguith himfelf in the caufe of his country. This, with the countenance fhown the Scots by the court of France, a bull publified by the pope in their favout, and the vigorous behaviour of the regent himfelf, eontributed to reduce Henry to reafon; and we hear of no more hoftilities between the two nations till after the death of the Englih monarch, which happened in the year 1413 .
AE. 1425.
claims of both were fo intricate, that the examination fell to the ground, but at the fame time the truce was prolonged.
In the end of the year 1409 , or the beginning of forfeit 100,000 pounds fterling, in cafe of his failure to return by a certain day. For reafons now un- Unfficcefor known, this treaty was broken off, and vaft prepara-ful expedltions were made for a new invafion of Scotland; Henry which, howerer, was executed with fo little fuccefs, that it became known among the common people of Scotland by the name of the fule raid, or the foolifh expedition.

In 1420, died Rubert duke of Albany, regent of an. 1420 Scotland, at the age of 80 ; and fich was the veneration which the Scots had for his memory, that his poft of regent was conferred upon his eldeft fon Murdoch, though a perfon no way qualified for that dlation.The war wilh England was now difcontinued; but in France Heary met with the greated opjofition from the Scots auxiliaries, infomuch, that at laft he proclaimed all the Scots in the fervice of the dauptin to be rebels againft their lawful fovereign, and threatened to treat them as fuch wherever he found them. It was not leng before he lad an opportunity of putting His rruilty this menace in execution; for the town and cafle of to the Scole Melun being obliged through famine to capitulatr, in France. one of the articles of capitulation was, that all the Englifh and Scots in the place frould be refigned to the abfolute difpofal of the Ling of England; and, in confequence of his refolution above-mentioned, caufed twenty Scots foldiers who were found in the place to be hanged as traitors. In ${ }^{142 r}$, Henry returned to England, and with him James the Scots hing. On his arrival there, he was informed that the Scots, under the earl of Douglas, had made an irruption into England, where they had burned Newark, but had been forced to return to their own country by a peltilence, though a new invafion was daily expected. Inliead of refenting this infult, Henry invited the earl of Douglas to a conference at York; in which the latter agreed to ferve him during life, by fea and land, abroad or at home, againt all living, except his own liege-lord the king of Scotland, with 200 foot and as many horfe, at his own charges; the king of England, in the mean time, allowing an annual revenue of 2001 . for paying his expence in going to the army by fea or land.

At the fame time, a new negociation was fet on foot for the ranfom of King James; but lie did not obtain his liberty till the year 1424. Henty V. was then dead; and none of his generals being able to fupply his place, the Englifh power in France began to decline. They 316 then became fenfible how neceffary it was to be at peace Treaty for with Scotland, in order to detach fuch a formidable ally ihe liberty from the French intercf. James was now highly ca- of James. refied, and at his own liberty, within certain bounds. The Englifh even confulted him about the manner of conducting the treaty for his ranfom; and one Dougal Drummond, a prieff, was fent with a fafe-conduct for the bifhop of Glafgow chancellor of Scotland, Dunbar earl of March, John Montgomery of Ardroflan, Sir Patrick Dunbar of Bele, Sir Robert Lawder of Edrington,

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s.artan 5. rington; Sir William Borthwic of Burthwic, and Sir John Forrelter of Corftorphin, to have an interview, at Pomfret, with their mafter the captive king of Scotland, and there to treat refpecting their common interefts. Moft of thefe noblemen and gentlemen had before been nominated to treat with the Englifh about their King's return; and Dougal Drummond feems to have been a domentic favourite with James. Hitherto the Scotifu king had been allowed an annual revenue of 7001 . : but while he was making ready for his journey, his equipages and attendants were increafed to thofe bentting a fovereig1; and he received a prefent from the Englin treafury of 1001. for his private expences. That he might appear with a grandeur every way fuitable to his dignity, at every ftage were provided relays of horfes, and all manner of fifl, flefh, and fowl, with cooks and other fervants for furnifling out the molt fumptuous royal entertainment. In this meeting at Pomfret, Janies ated as a kind of a mediator between the Englifh and his own fubjects, to whom he fully laid himielf open; but, in the mean time, the Englifh regency iffued a commifion for fettling the terms upon which James was to be reftored, if he and his commififoners fhould lay a proper foundation for fuch a treaty. The Englifh commifioners, were the bifhops of Durham and Worcefter, the earls of Nurthumberland and Weftmoreland, the Iords Nevil, Cornwal, and Chaworth, with mafter John Wodeham, and Robert Watcrton. The initructions they received form one of the mofl curious paffages of this hitory; and we thall here give them, as they are neceffary for confirming all we have faid concerning the difpofitions of the two courts at this juncture.

Firf, To make a faint oppofition to any private conference between the king of Scotland and the Scotch commiffioners.

Secondly, To demand that, before the faid king fiall have his full liberty, the kingdom of Scotland thould pay to the Englifh government at leaft thirty.fix thoufand pounds as an equivalent, at two thoufand pounds ayear, for the entertainment of King James, who was maintained by the court of England, and not to abate any thing of that fum ; but if poffible to get forty thoufand pounds.

Thirdly, That if the Scots thould agree to the payment of the faid fum, the Engliih commifioners fhould take fufficient fecurity and hoftages for the payment of the fame; and that if they fhould not (as there was great reafon for believing they would) be fo far mollified, by fuch eafy terms, as to offer to enter upon à negociation for a final and perpetual peace between the two people, that then the Englihh fhould propofe the fame in the moft handfome manner they could. Farther, that if fuch difficulties fhould arife as might make it impracticable immediately to conclude fuch perpetual peace, that the Englifh ambaffadors thould, under pretence of paving a way for the fame, propofe a long truce.

Fourthly, That if the Englih commiffioners fhould fucceed in bringing the Scots to agree to the faid truce, they flould further urge, that they flould not fend to Charles of France, or to any of the enemies of England, any fuccours by. fea or land. Farther, that the faid Englifh commiffioners fhould employ their utmoft endeavours to procure the recal of the troops already furnifted by the Scots to France. The Englifh are
commanded to infilt very frenuoufly upon this point, but with difcretion.

Fifthly, If the Scots fhould, as a further bond of amity belween the two nations, propofe a marriage between their king and fome noblewoman of England, the Englifh commilfioners are to make anfwer, "That the king of Scots is well acquainted with many neblewoinen, and even thufe of the blood royal, in England; and that if the king of the Scots thall pleafe to open lis mind more freely on that head, the Englifh commiffioners fhall be very ready to enter upon conferences thercupon." But (continues the record) in cafe the Scotch commiifioners thould make no mention of any fach alliance by marriage, it will not appear decent for the Englifh to mention the fame, becaufe the women of England, at leaft the noblewomen, are not ufed to offier themfelves in marriage to men.

Sixthly, If there fhould be any mention made concerning reparation of damages, that the commifioners fhould then praceed upon the fame as they fhould think moll proper; and that they fhould have power to offer fafe-conduct to as many of the Scots as flould be demanded, for to repair to the court of England. Thole infructions are dated at Weflminfter, July 6th ${ }_{1} 423$.

Nothing definitive was concluded at this treaty, but that another meeting flould be held at York inflead of Pomfret. This mecting accordingly took place. The Englifh commifioners were, Thomas bilhop of Durham, chancellor of England, Philip biftop of Winchefter Henry Percy earl of Northumberland, and Mr John Wodeham. Thofe for Scoiland were, William bithop of Glafgow, George earl of March, James Douglas of Balveny, his brother Patrick abbot of Cambufkenneth, John abbot of Balmerino, Sir Patrick Dunbar of Bele, Sir hohert Lauder of Edrington, George Borthwic archdeacon of Glafgow, and Patrick Houllon canon of Glafgow. On the 10th of September, after their meeting, they came to the following agreement :

Firl, That the king of Scotland and his heirs, as an equivalent for his entertainment while in England, fhould pay to the king of England and his heirs, at London, in the church of St Paul, by equal proportions, the fum of 40,0001 . Iterling.

Secondly, That the firft payment, amounting to the fum of ten thoufand merks, floould be made fix months after the king of Scotland's entering his own kingdom ; that the like fum fhould be paid the next year, and fo on during the fpace of fix years, when the whole fum would be cleared ; unlefs, after payment of forty thouland merks, the laft payment of ten thoufand thould be remitted, at the intreaty of the molt illuftrious prince Thomas duke of Exeter.

Thirdly, That the king of Scotland, before entering his own kingdom, fhould give futticient hoflages for performance on his part. But, in regard that the Scots plenipotentiarics had no infructions concerning hoflages, it was agreed,

Fourthly, That the king of Scotland fhould be at Branfpath, or Durham, by the firft of March next, where he fhould be attended by the nobles of his bloot, and other fubjects, in order to fix the number and quaility of the hoftages.

Fifthly, That, to cement and perpetuate the amity of the two kingdoms; the governor' of Scotland flould

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secend. fend ambantadors to London, witì power to conclude a contraet of mariage between the King of Scotland and fome lady of the firlt quality in England.

It is probable that James hald already fixed his choice upon the lady Joan, daughter to the late earl of Somerfct, who was ion to John of Gaunt duke of Lancafter, by his fecond marriage; but he made his people the compiiment, not only of confulting their opinion, but of concluding the match. The commiffioners, after their agreement at York, proceeded towards London; and Thomas Somervilie of Carnweth, with Walter Ogilvy, were added to their number. Being arrived at that capital, they ratified the former articles, and undertook for their king, that he fould deliver his hoftages to the king of England's cfficers, in the city of Durbam, before the laft day of the enfuing month of March; that he Chould alfo deliver to the faid officers four obligatory letters, for the whole fum of 40,000 . from the four burghs of Edinburgh, Perth, Dundee, and Aberdeen; that he thould give his obligatory letter to the fame purpofe, before removing from Durham, and flould renew the fame four days after his arrival in his own kingdom; that the hoftages might be changed from time to time for others of the fame fortune and quality; that if any of them fhould die in England, others fhould be fent thither in their room; and that while they continued to ftay in England, they fhould live at their own charges.

317 Marriage
of King James.
An. 1424 The marriage of James with the lady Joan Beaufort was celebrated in the beginning of February 1424 . The young king of England prefented him with a fuit of cloth of gold for the ceremony; and the next day he received a legal difcharge of 10,000 pounds, to be deducted from the 40,000 at which his ranfom was fixed, and which fum was given as the marriage-portion of the lady. The ceremony being performed, the king and queen fet out for Durham, where the hoftages were waiting; and arrived at his own dominions, along with the earl of Northumberland and the chief of the northern nobility, who attended him with great pomp. On the 20th of April the fame year, he was crowned at Scone; after which ceremony, he followed the example practifed by other fovereigns at that time, of knig!ting feveral noblemen and gentlemen.

During the dependence of the treaty for James's releafe, the Scots had emigrated to France, in fuch numbers, that no fewer than 15,000 of them now appeared in arms under the duke of Touraine; but as the hiffory of the war in that country has already been given under the article France, we fhall take no farther notice

He reforms On his return James found himfelf in a difagreeable feveral abu-fituation. The great maxim of the duke of Albany,
they been regulariy tranfmitted to him, would have Sctiand. more than maintained him in a fplendour eq̧ual to his dignity, while he was in England; nor would he in that cafe have had any occafion for an allowance from the king of England. But as the duke of Albany never intended that his nephers fhould return, he parcelled out among his favourites the effates of the Stewart family, in fuch a manner that James on lis return found all his patrimonial revenues gone, and many of them in the hands of his belt friends; fo that he had nothing to depend on for the fupport of kimfelf and his ccurt but the crown-revenues above-mentioned, and eren fome of thefe had been mortgaged during the late regency. This circumftance, of ittelf fufficiently dilagreeable, was attended with two others, which tended to make it more fo. The one was, that the hoftages which had been left for the king's ranfom in England, being all perfons of the firft rank, were attended by their wives, families, children, and equipages, which rivalled thoie of the fame rank in England, and drew a great deal of ready money out of the nation. The other circumflance arole from the charge of the Scots army in France; where Charles, who had never been in a condition to fupport it, was now reduced to the utmoft neceffity: while the revenues of James himfelf were both feanty and precarious. To remedy thefe inconveniences, therefore, the king obtained from his parliament an act obliging the fherifs of the refpective counties to inquire what lands and eftates had belonged to his anceftors David II. Robert 11. and Robert III.; and James formed a refolution of refuming thefe lands wherever they could be difcovered, without regard to perfons or circumfances. On this occalion many of the moft illuftrious perfonages in the kingdom were arrefted: the duke of Albany, his 319 two fons, and the earl of Lennox the duke's father-in- Several of law, were put to death, though their crimes are not execuicd. fpecified by hiftorians.

James now proceeded with great fipit to reform the abufes which had pervaded every department of the ftate, protected and encouraged learning and learned men, and even kept a diary in which he wrote down the names of all the learned men whom he thought deferving of his encouragement. James himfelf wrote fome poetry; and in mufic, was fuch an excellent compofer, that he is with good reafon luoked upon as the father of Scots mufic, which has been fo much admired for its elegant fimplicity. He introduced organs into his chapels, and a much better ftyle of architecture into all buildings whether civil or religicus. Nor did he confine his cares to the fine arts, but encouraged and protected thofe of all kinds which were ufeful to fociety ; and, in fhort, he did more towards the civilization of his people than had been done by any of his predeceffors.

In the mean time the truce continued with England. James, however, feemed not to have any inclination to enter into a lafting alliance with that kingdom. On the contrary, in 1428 , he entered into a treaty with France ; by which it was agreed, that a marriage fhould be concluded between the dauphin of France, afterwards Louis XI. and the young princefs of Scotland; and fo great was the neceffity of King Charles for troops at that time, that he demanded only 6000 forces as a portion for the princefs.

The reit of the reign of James was fpent in reform-

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barbarities inflicted on fome of thofe wretches are flock- Scatland ing to relate. Within lefs than fix weeks after the death of the king, ali tire confpirators were brought to Edinburgh, arraigned, condemned, and executed. The meaner fort were hanged; but on the earl of Athol and fiobert Graham the moft cruel torments were indlicted, fuch as pinching with hot itons, diflocation of the joints, \&c. 'The earl of Athol, had, befides, a crown of red-hot iron put on his head; and was afterwards cut up slive, bis heart taken out, ane thrown into a fire. In fhort, lo dreadful were thefe punifhments, that Fneas Sylvius, the pope's nuncio, who beheld them, faid, that he was at a lofs to determine whether the crime committed by the regicides, or the punihment inflicted upoas them, was the greater.

As the late king had prefcribed no form of regency An, 2438 . in cafe of his death, the fettlement of the government became a matter of great difficulty as well as importance. Archibald earl of Douglas, who had been created duke of Touraine in France, was by far the greateft fubject in the kingdom; but as he had not been a favourite in the preceding reign, and the people were now difgufted with regencies, he was not formally appointed to the adminitration, though by his high rank he in fact enjoyed the fupreme power as long as he lived; which, however, was but a fhort time. He died supreme 323 the fame year ( ${ }^{1438}$ ) ; and Sir Alexander Livingftone power diviof Callendar was appointed to fucceed him as governor ded beof the kingdom, that is, to have the executive power, ${ }^{\text {tween the }}$ while William Crichton, as chancellor, had the direc- and chan tion of the civil courts. This was a moft unfortunate cellor of thopartition of power for the public. The governor and kingdom. chancellor quarrelled; the latter took poffeffion of the king's perfon and the caftle of Edinburgh, to neither of which he had any right ; but the former bad on his fide the queen-mother, a woman of intrigue and fpirit. Her fon was fhut up in the caftle of Edimburgh ; and in a fhort time there was no appearance either of law or government in Scotland. The governor's ediets were counteracted by thofe of the chancellor under the king's name, and thofe who obeyed the chancellor were punifhed by the governor; while the young earl of Douglas, with his numerous followers and dependents, was a declared enemy of both parties, whom he equally fought to deftroy.

The queen-mother demanded accefs to her fon, which $3^{24}$ Crichton could find no pretext for denying her; and moqueenfhe was accordingly admitted with a fmall train intoher fon at the caftle of Edinburgh. She played her part fo well, liberty. and diffembled with fo much art, that the chancellor, believing the had become a convert to his caufe, treated her with unbounded confidence, and fuffered her at all hours to bave free accefs to her fon's perion. Pretending that the had vowed a pilgrimage to the white church of Buchan, the recommended the care of her fon's perfon, till her return, to the clancellor, in the molt pathetic and affectionate terms; but, in the mean time, The fecretly fent him to Leith, packed up in a clothescheil; and both the and James were received at Stirling by the governor before the efcape was known. As every thing had been managed in concert with Livingfton, he immediately called together his friends; and laying before them the tyrannical behaviour of the chancellor, it was refolved to befiege him in the caltle of E. Jinburgh, the queen promiting to open her owa gra-

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Scotland. for the ufe of the army. The chancellor forefav the ftorm that was likely to fall upon him, and lought to prevent it by applying to the earl of Douglas. That haughty nobleman aniwered him in the terms already mentioned, and that he was preparing to exterminate both parties. The fiege of Edinburgh caltle being formed, the chancellor demanded a parley, and a perfonal interview with the governor ; to which the latter, who was no flranger to the fentiments of Douglas, readily agreed. Common danger united them in a common caufe; and the chancellor refigning to the other the cultody of the caftle and the king's perfon, with the highelt profeffions of duty and loyalty, the two competitors fivore an inviolable friend/hip for each other. Next day the king cemented their union, by confirming both of them in their refpective charges.
of Lorn, brothersto the lord of that title, and a defcen: Stotlards dant of the houle ol Darniey. Affection for her husband caufed her to renew her political intrigues; and not finding a ready compliance in the governor, her intereft inclined towards the party of the Douglates. The go? vernor fought to ftrengthen his authority by reftoring the exercile of the civii power, and the revercnce due to the perion of the tovereign.

The conduct of the lord Callendar was in many re- The $3: 6$ fpects not fo defenfible, cither as to prudence or policy. mother and When the queen expreffed her inclinations that her huf- her hufband might be admitted to fome part of the adminiftra- band imtion, the governor threw both him and his brother the pritoned. lord Lorn into prifon, on a charge of undutiful practices againtt the ftate, and abetting the earl of Douglas in his enormilies. The queen, taking five at her hulband's imprifonment, was herfelt confined in a mean ápartment within the caltle of Stirling; and a convention of the itates was called, to judge in what manner fhe was to be proceeded againft. The cafe was unprecedented and difficult; nor is it credible that the governor would have carried matters to fuch extremity, had he not had ftrong evidences of her illegal behaviour. She was even obliged to diflemble her refentment, by making an open profeffion before the ftates, that the had always been entirely imnocent of her hurband's practices, and that fhe would for the future behave as a peaceable and dutiful fubject to the laws and the fovereign Upon making this purgation (as Lindiay calls it), the was releafed, as alfo her hubband and his brother, being bailed by the chancellor and the lord Gordon, who became fureties for their good behaviour in the penalty of 4000 merks. The governor was afterwards accufed of many arbitrary and partial acts of power : and indeed, if we confider his fituation, and the violence of the parties which then divided Scotland, it was almoft impofible, conffifently with his own fafety, to have exerted the virtues either of patriotifm or moderation.

The chancellor was exceedingly vexed at the fmall regard which the governor paid to his perfon and dignity, and fecretly connected himfelf with the queenmother; but in the mean time he remained at Edinburgh. The king and his mother continued all this time at Stirling; where the governor, on pretence of confulting the public fafety, and that of the king's perlon, maintained a ftrong guard, part of which attended James in his javenile exercifes and diverfions The queen-mother did not fail to reprefent this to her
fon as a reftraint on his liberty; and obtained his confent to put himfelf into the chancellor's hands. The cellur gets latter, who was a man of activity and courage, knew the king's well how to avail himfelf of this permiffion; and perion into croffing the Forth in the dark with a ftrong body his hands. of horle, they furrounded the king as he was, hunting next morning by break of day. It. was eafy to perceive from the behaviour of James, that he was no flranger to the chancellor's attempt; but fome of the king's guard offering to difpute the poffefion of his perfon, Sir William Livingiton, the governor's eldeft fon, reflrained them, and fuffered the, king to depart quietly. This furprifal happened ona day when the governor was ablent from Stirling; and the chancellor, to make fure of his royal acquifition entered Edin-

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 he iffued his orders, gave protections to thieves and murderers, affected to brave the king, made knights, and, according to fome writers, even noblemen, of his own dependents, with a power of fitting in parliament.

The queen-mother was not wholly guiltlefs of thofe abufes. She had fallen in love with and married Sir James Stuart, who was commonly called the Black knight

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s-otlaad. burgh at the heid of 4000 horfe, where the king and $\underbrace{}_{\text {he were received by the citizens with leud acclamations }}$ of joy.

The governor thowed no emotion at what had happened; on the contrary, he invited the chancellor to

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Rebellious behaviuur of the earl of Douglas an interview, and fettled ali differences with him in an amicable manner. The young lord Douglas, however, continued to brave both parties. As if he had been a fovereign prince, he demanded by his ambaffadors, Malcolm Fleming of Cumbernauld, and Allan Lawder, the invelliture of the fovereignty of Touraine from Charles the fcventh of France; which being readily granted him, ferved to increafe his pride and infolence. The firit-fruits of the accommodation between the two great officers of ftate was the holding of a parliament at Edinburgh, for redreffing the public diforders occafioned by the earl of Douglas; and encouragement was given to all perfons uloo had been injured to make their complaints. The numbers which on that occafion reforted to Edinburgh were incredible ; parents, children, and women, demanding vengeance for the murder of their relations, or the plunder of their eftates; till, by the muitiplicity of their complaints, they became without remedy, none being found bold enough to encounter the earl of Douglas, or to endeavour to bring him to a fair trial. The parties therefore were difniffed without relief, and it was refolved to proceed with the haughty earl in a different manner. Letters were written to him by the governor and chancellor, and in the name of the ftates, requefting him to appear with his friends in parliament, and to take that lead in public affairs to which they were intitled by their high rank and great poffeffions. The manner in which thole letters were penned made the thoughtlefs earl confider them as a tribute due to his greatnefs, and as proceeding from the inability of the government to continue the adminiftration of public affairs without his countenance and direction. Without dreaming that any man in Scotland would be fo bold as to attack him, cven fingle or unarmed, he anfwered the letters of the chancelior and governor, by affuring them that he intended to fet out for Edinburgh : the chancellor, on pretence of doing him honour, but in reality to quiet his fufpicions, met him while he was on his journey; and inviting him to his caftle of Crichton, he there entertained him for fome days with the greatent magnificence and appearance of hofpitality. The earl of Douglas believed all the chancellor's profeffions of friendfhip, and even fharply checked the wifeft of his followers, who counfelled him not to depend too much on appearances, or to truft his brother and himfelf at the fame time in any place where the chancellor had power. The latter had not only removed the earl's fufpicion, but had made him a kind of convert to patrio. tifm, by painting to him the miferies of his country, and the glory that muft redound to $\lim$ and bis friends in removing them. It was in vain for his attendants to remind him of his father's maxim, never to ri尺k himfelf and his brother at the fame time : he without hefitation attended the chancellor to Edinburgh ; and being admitted into the caftle, they dined at the fame table with the king. Towards the end of the entertainment, a bull's head, the certain prelude of immediate death, was ferved up. The earl and his brother farted to their
feet, and endeavoured to make their efcape : but armed Scotand. men rufling in, overpowered them, and tying their $-3: 0$ hands and thofe of Sir Maicolm Fleming with cords, 15 puc to they were carried to the hill and beheaded. The young veath with king endeavoured with tears to procure their pardon; hus brother. for which he was feverely checked by the unrelenting chancellor.

In 1443, the king being arrived at the age of 14, An, 1443. declared himfelf out of the years of minority, and took upon himfelf the adminiftration of affairs. He appears to have been a prince of great fpirit and refolution; and he had occafion for it. He had appointed one Robert Sempil of Fulwood to be chief governor of the caltle of Dumbarton; but he was killed by one Galbraith (a noted partizan of the earl of Douglas), who feized upon the government of the caftle. The popularity of the family of Douglas having fomewhat fub. fided, and the young earl finding himlelf not fupported by the chief bianches of his family, he began to think, now that the king was grown up, his fafell courle would be to return to his duty. He accordingly re-The 33 r paired to the king at Stirling; and voluntarily throw-eat lubmats ing himitif at his majelly`s feet, implored pardon for to the king, all his tranfgrefions, and folemnly prom:fed that he cend is rewould cver after fet a pattern of duty and loyalty to lavour. all the reft of his fubjeets. The king, finding that he infifted on no terms but that of pardon, and that he had unconditionally put himfelf into his power, not only granted his requeft, but made him the partner of his inmoft councils.

James had always difliked the murder of the earl of Douglas and his brother; and the chancellor, perceiving the afcendancy which this earl was daily gaining at court, thought it high time to provide for his own fafety. He therefore refigned the great feal, and retired to the caftle of Edinburgh, the cuftody of which. be pretended had been granted to him by the late king during his life, or till the prefent king fhould arrive at the age of 21 ; and prepared it for a liege. The lord Greai diCallendar, who knew himfelf equally obnoxious as Great die Crichton was to the earl of Douglas, and that he could in cotnot maintain his footing by himfelf, refigned likewifeland. all his pofts, and retired to one of his own houfes, but kept poffeffion of the caftle of Stirling. As both that and the caftle of Edinburgh were royal forts, the two lords were fummoned to furrender them; but inftead of complying, they juftified their conduct by the great power of their enemies, who fought their deftruction, and who had been fo lately at the head of robbers and outlaws: but promifed to furrender themfelves to the king as foon as he was of lawful agc, (meaning, we fuppofe, either 28 or 21 ). This anfwer being deemed contumacious, the chancellor and the late governor, with his two fons Sir Alexander and Sir James Livingfon, were proclaimed traitors in a parliament which was fummoned on purpofe to be leeld at Stirling. In another parliament held at Pcrth the fame year, an act paficd, that all the lands and goods which liad belonged to the late king thould be polfeffed by the prefent king to the time of his lawful age, which is not fpecified. This aet was levelled againtt the late governor and chance!lor, who were accufed of having alienated to their own ufes, or to thofe of their friends, a great part of the royal effeets and jewels; and their eftates heing confifated, the

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Scotland. execution of the fentence was committed to John Forrefter of Cortorplin, and other adherents of the ca:l of Douglas.

This fentence threw all the nation into a flame. The cafle of Crichton was befieged; and being furrendered on the king's fummons and the difplay of the royal banner, it was levelled with the ground. It foon appeared that the governor and chancellor, the latter efpecially, had many friends; and in particular Kennedy archbifhop of St Andrews, nepherv to James the firt, who fided with them from the dread and hatred they bore to the earl of Douglas and his family. Crichton thus foon found himfelf at the head of a body of men; and while Forrefter was carrying fire and fword into his eftates and thofe of the late governor, his own lands and thofe of the Douglafes were overrun. Coritorphin, Abercorn, Blacknefs, and other places, were plundered ; and Crichton carried off from them more booty than he and his adherents had loft. Particular mention is made of a fine breed of mares which Douglas loft on this occafion. That nobleman was fo much exafperated by the great damages he had fuftained, that he engaged his friends the earl of Crawford and Alexander Ogilvy of Innerquharity, to lay wafte the lands of the archbihhop of St Andrew's, whom he confidered as the chief fupport of the tivo minifters. This prelate was not more confiderable by his high birth, than he was venerable by his virtue and fanctity; and had, from a principle of confcience, oppofed the earl of Douglas and his party. Being confeious he had done nothing that was illegal, he firlt admonifhed the earl of Crawford and his coadjutor to defilt from deftroying his lands; but finding his admonitions ineffectual, he laid the earl under an excommunication.

That nobleman was almoft as formidable in the northern, as the earl of Douglas had been in the fouthern, parts of Scotland. The Benediciine monks of Aberbrothwic, who were poffeffed of great property, had chofen Alexander Lindfay, his eldeft fon, to be the judge or bailiff of their temporalities; as they themfelves, by their profeffion, could not fit in civil or criminal courts. Lindfay proved fo chargeable to the monks, by the great number of his attendants, and his high manner of living, that their chapter removed him from his poft, and fubftituted in his place Alexander Ogilvy of Innerquharity, guardian to his nephew John Ogilvy of Airley, who had an hereditary claim on the bailiwick. This, notwithftanding their former intimacy, created an irreconcileable difference between the two families. Each competitor frengthened himfelf by calling in the affiftarce of bis friends; and the lord Gordon taking part with the Ogilvies, to whom he was then paying a vifit, both parties immediately muftered in the neighbourhood of Aberbrothwic. The earl of Crawford, who was then at Dundee, immediately pofted to Aberbrothwic, and placing himfelf between the two armies, he demanded to fpeak with Ogilvy; but, before his requeft could be granted, he was killed by a consmon foldier, who was ignorant of his quality. His death exafperated his friends, who immediately rufted on their enemies; and a bloody conflict enfued, which ended to the advantage of the Lindfays, that is, the earl of Crawferd's par.v. On that of the Ogilvies were tilled Sir Juhn Oli. is of Aberdalgy, John Forbes of

Pitliggo, Alexander Barclay of Gartley, Robert Max- Scolland wel of Celing, Duncan Campbell of Campbelfether, William Gordon of Burrowfield, and others. With thofe gentlenion, about 500 of their followers ste faid to have fallen; but fome accounts diminilh that number. Innerquharity himfelf, in flying, was taken priloner, and carried to the earl of Ciawford's houfe at Finhaven, wherc he died of his wounds; but the lord Goidon (or, as others call him, the curl of Huntley) elcaped by the fiviftuds of his horle.

This battle feems to have let loofe the fury of civil difcord all over the kingdom. No regard was paid to magiftracy, nor to any defcription of men but that of clergy. The moft numerous, fierceft, and beft allied family, wreaked its vengeance on its foes, either by force or treachery; and the enmity that actuated the parties, flifled every fentiment of honour, and every feeling of bumanity. The Lindfays, fecretly abetted and ftrengthened by the earl of Douglas, matle no other ufe of their victory than carrying fire and fword through the eftates of their enemies; and thus all the north of Scotland prefented fcenes of murder and devaftation. In the weft, Robert Boyd of Duchal, governor of Dumbarton, treacheroufly furprifed Sir James Stuart of Achmynto, and treated his wife with fuch inhumanity, that fhe expired in three days under her confinement in Dumbarton cafte. The caftle of Dunbar was taken by Patrick Hepburn of Hales. Alexander Dunbar difpoffeffed the latter of his caftle of Hales; but it was retaken by the partifans of the earl of Douglas, whofe tenants, particularly thofe of Annandale, are faid to have behaved at that time with peculiar fiercenefs and cruelty. At laft, the gentlemen of the country, who were unconnected with thofe robbers and murderers, which happened to be the cafe with many, thut themfelves up in their feveral houfes; each of which, in thofe days, was a petty fortrefs, which they victualled, and provided in the beit manner they could for their own defence. This wife refolution feems to have been the firft meafure that compofed the public commotions.

The earl of Douglas, whofe power and influence at court fill continutd, was fenfible that the clergy, with the wifer and more difinterefed part of the kingdom, confidered him as the fource of the dreadful calamities which the nation fuffered; and that James himfelf, when better informed, would be of the fame opinion. He therefore fought to avail himfelf of the juncture, by forming fecret but ftrong connections with the earls of Crawford, Rofs, and other great noblemen, who defired to fee their feudal powers reftored to their full vigour. The queen-dowager and her hufband made little or no figure during this feafon of public confufion : fhe had retired to the caftle of Dunbar, while it was in Hepbun's pofleffion, where the died foon after. She left by her fecond hurband three fons; John, who in 1455 was made earl of Athol, by his uterine brother the king; James, who under the next reign, in i469, was created earl or Buchan ; and Andrew, who afterwards became bifhop of Murray. As the earl of Douglas was an enemy to the queen dowager's hufband, the latter retired to England, where he obtained a pafs to go abroad, with 20 in bis train; but being taken at fea by the Flemiff pirates, he died in confinement.

The great point bctween the king and Sir William Crichiton,

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5.athon. Crichton, wheiher the latter thould give up the caftle to his in jefly, remained till uldecided; and by the advice enf d'rettim of the earl of Duarlas, who had be a creaned lord-liencenat of the kin:dom, it had nor-futt'red a nine months hicge. Fither the flrength of the c. Atle, or an opinion entertained by Douglas that Crichton would be a valuab acquifition to his party, precured better terms for the later than he could atherwife have expected; for he and his followers were offered a full indemmity for all prit offences, and a promie was made that he thould be rettored not only to the king's favour, but to his former poft of chancellor. He accepted the conditions; but refuifd to att in any public capacity till they were confirmed by a parliament, which was foon after held at Perth, and in which he was rettored to his eltaie and honours. Py this reconciliation between Douglas and Crichton, the former was left at full liberiy to profocute his vengeance againft the lord Callendar, the late governor, his friends and family. That vengeance was exercifed with rigour. The gorernor himfelf, Sir James Dundas of Dundas, and Sir Robert Bruce of Clackmannan, were forced to fave their lives by the lofs of their eitates; but even that could not preferse their liberty, for they were fent prifoners to the caftle of Dumbarton. The fate of Alexander, the governor's eldelt fon, and of two other gentlemen of lis name and family, was ftill more lamentable; for they were condemned to lufe their heads. Thefe feveritics being infliked after the king had in a manner readmitted the fufferers into his favour, fwelled the public outcry againit the earl of Douglas. We have in Lindfay an extract of the fpeech which Alexander Livingiton, one of the moit accomplihed gentlemen of his time, mate on the fcaffold, in which he complained, with great bitternefs, of the cruel treatment which his father, himfelf, and his frlends, had undergone; and that he fuffered by a packed jury of his enemics.

The king being now about 18 years of age, it was thought proper that a fuitable confort fhould be provided for him ; and, after various confultations, Mary, the daughter of Amold duke of Gueldres, was chofen, at the recommendation of Charles king of France, though the marriage was not completed till fome time after. This produced an inmediate rupture with England. The earls of Salifbury and Northumberland entered Scotland at the head of two feparate bodies. The that of Dunbar ; while Sir John Douglas of Balveny made reprifals by plundering the county of Cumberland, and burning Alnwic. On the return of the Englifh armics to their own country, additional levies were $m$ de, and a freth invafion of Scotland was refolved on under the earl of Northumberland, who had with him a lieutenant, whom the Scots of thofe days, from the bufhinefs and colour of his beard, called Magnus with the red manc. He was a foldier of fortune, but an excellent oficer, having been trained in the French wars; and he is faid to have demanded no other recompenfe for his fervices from the Englill court, but that he fhould enjoy all he coul! conquer in Scotland. The Scots, in the mean time, had raifecl an army commanded by George Douglas eant of $O$ mond, and under him by Wallace of Crigie, with the lords Maxwell and iohnton. The F.nplift huvises paffed Solway frith, Sof XVIII B tif.
ravared all that part of the country which belonged to Scotland. the Souts; but hearing that the earl of Ormond's army $\quad$ whis approact ing, called in their parties, and fixed their camp on the banks of the river Sark. Their advanced guand was commanded by NIagmos ; their centre by the earl of Northumberland; and the rear, which was compoled of Welch, hy Sir John Pem ington, an oliticer of courgje and experience.

The sicots drew up in three divelions likemife. Their tre"t right wing was commanded by Wallace, the centre by of sut the earl of Ormond, and their left wing by the lords Maswell and Jolmilon. Before the battle began, the earl of Ormond harangued his men, and infpirel th mo with very high refentment againft the Eaglift, who, he faid, had treacheroully broken the truce. The fignal fo: battle being given, the Scots under Wallace rufied forward on their enemies: but, as ufual, were received by fo terrible a difcharge from the Eagliih archers, that their impetuofity mult have been ifopped, had not their brave leader Wallace put them in mind, that theis forefathers had always been defeated in diftant fights by the Englifh, and that they ought to trult to their fwords and (pears; commanding them at the fame time to follow his cxample. They obeyed, and broke in upon the Englifh commanded by Magnis, with fuch fury, as foon fixed the fortune of the day on the fice of the Scots, their valour being fuitably feconded by the other two divifions. The flaughter (which was the more coniderable as both parties fought with the utmoft animofity) fell chicfly upon the divifion commanded by Magnus, who was killed, performing the part of a brave officer ; and all his body-guard, confiting of picked foldiers, were cut in pieces.

The battle then became general : Sir John Penni.g- Tl 18 ton's divifion, with that under the earl of Northunt-er-hihemer ; land, was likewife routed; and the whole Englinh army, detartis. ftruck by the lofs of their champion, fled toway/s the Sulway, where, the river being fwelled by the tide, numbers of them were drowned. The lofs of the Englith in llain amounted to at lealt 3000 men. Among the prifoners were Sir Jolnn Pennington, Sir Robert Harrington, and the earl of Northumberland's eldeft fon the lord Percy, who loft his own liberty in forwarding his father's efcape. Of the Scots about 600 were killed; but none of note, excepting the brave Wallace, who died three months after of the wounds he had received in this battle. The booty that was made on this occafion is faid to have been greater than any that had fallen to the Scots fince the battle of Bannock burn.
The remaining hiflory of this turbulent reign confifts R theclion almot entirely of a relation of the cabals and confpira-of the eit cies of the great men. The earl of Douglas had entered of D.usinto a confederacy with the earls of Crawford, MToray, hs and and Rofs, and appeared on all occafions wibl fuch a train of followers as bale defiance to royal power itfelf. This infolence was detelled by the wifer part of the nation; and one Maclellan, who is called the Tutor of Bomby, and was nephew to Sir Patrick Gray, captain of the kins's guard, refufed to give any attendance on the earl, or to concur in his meafures, but remained at home as a gruiet fuhject. This inoffenfive behaviour was by the earl confideral as treafon againf himielf; and violently fcizing on Maclellan's houle and perfon, he fent him clofe prifoner to the cafle of Douglas. As

Mackellan
now of age, he was refolved to be the father of all his Srouldne. people, and to takc the government into bis own hands; that his loidhip, therefore, had no reafon to be under any apprehenfions from his old enemies Callendar and Crichton; that there was no occation to form any confederacies, as the law was ready to protect him; and that he was welcome to the priacipal dircetion of affairs under the crown, and to the firft place in the royal confidence; nay, that all former offences done by himfelf and his friends floould be pardoned and forgotten."

This fpeech was the very reverfe of what the earl of Douglas aimed at. It rendered him, indeed, the firft fubject of the kingdom ; but flill he was controulable by the civil law. In thort, on the king's peremptorily putting the queftion to him, he not only refufed to diffolve the confederacy, but upbraided the king for his government. This produced a patitionate rejoinder on the part of James; but the earl reprefented that be was under a fafe-conduct, and that the natuie of his confederacy was fuch, that it could not be broken but by the common confert of all concerned. The king in- The king fifted on his fotting the example; and the earl con-kiltshim tinuing more and more obftinate, James flabbed bim with his with his dagger; and armed men rufling into the rcom, finifhed the atrocious deed.

After the death of the earl of Douglas, the confederacy came to nothing. The infurgents excufed themfelves as being too weak for fuch an enterprife; and were contented with trailing the fafe-conduct at a horfe's tail, and froclaiming, by trumpets and horns, the king a ferjured traitor. They proceeded no farther; and each departed to his own habitation, after agreeing to affemble with frefh forces about the beginning of April. James loft no time in improving this fhort refpite; ard found the nation in gencral much better difpoled in his favour than tic had icafon to expect. The intolerable of preffions of the great barons made his fubjects efieem the civil, far preferable to the feuda?, fubjection: and eren the Douglafes were divided among themifelves: for the earl of Angus and Sir Coln Douglas of Dalkeith were among the moll forward of the royalifts. James at the dame time wrote letters to the earl of Huntly, and to all the noblemen of his kingdom who were not partics in the conjeceracy, befides the ecclefiaflics, who remained firmiy attached to his prerogative. Before the effect of thofe letters could be known, the infurgents had returned to Stialing (where Jomes ftill wifely kept bimfelf on the defenfive); repeated their infclences, and the opprobrious treatment of his fafe-conduef; and at lan they plurdered the town, and laid it in afhes. Being ftill unable to take the caflle, partly through their own divifions, and partly through the diverfity of the operations they were obliged to carry on, they left Stirling, and deftroyed the eflate of Sir John Douglas of Dalkeith, whom they corfidered as a double traitor, becaufe he was a Douglas and a good futject. They then befieged his caflle: but it was fo bravely defended by Patrick Cockburn, a gentleman of the family of Langton, that they raifed the fiege; which gave the royal party farther leifure for humbling them.

All this time the unhappy country was fuffering the moft crucl devaftations; for matters were now come to fuch cxtremity, that it was necellary for every man to be

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sootland. a royalif or a rebel. The king was obliged to keep on $\underbrace{\text { Lu }}$ the defenfive; and though he had ventured to leave the caftle of Stirling, he was in no condition to face the rebels in the field. They were in poffefian of all the itrong palfes by which his friends were to march to his affittance; and he even confulted with his attendan's on the means of effaping to France, where he was fure of an ho pitable reception. He was diveried from that refolution by Aichbihop Kennedy and the casl of Angus, who was h:mielf a D.uglas, and prevailed on to wait for the event of the earl of Huntly's attempts for his fervice. This nobleman, who uas defcended from the Seatons, bat by marriage inherited the great effates of the Gordons in the north, had raifed an army for James, to whele family he and his anceftors, by the Gordons as well as the Seatons, had been always remarkably devoted. Janes was not miltake: in the high opinion he had of Huntly; and in the mean time he iflued circular leiters to the chief ecclefialitics and bodies-politic of his kingdom, ؟etting forth the neceflity he was under of proceeding as he had done, and his readinefs to protect all his loyal fubjeets in their rights and privileges againft the poxer of the Douglaies and their rebellious adherents. Before thefe letters could have any eficict, the tebels had plundered the defencelefs houies and ellates of all who were nut in their confederacy, and had proceeded with a fary that turned to the prejudice of their caufe.

The indignation which the public bad conceived againit the ling, for the violation of his fafe-conduct, began now to fubide; and the behaviour of his enemies in fome meafure juitified what had happened, or at leaif made the people fufpect that James would not have proceeded as he did withuut the frongelt provocation. The forces he had affemsied being unable, as yet, to act offenfively, he refolved to wait for the easl of Huntly, who by this time was at the head of a confiderable army, and had begun his merch fouthwards. He had been joined by the Forbefes, Ogilvies, Leflies, G:ants, Irvings, and other relations and dependants of his family ; but having advanced as far as Brechin, he
two brothers, William and Henry; and we are told, Scotland. that, to indemnify him fur his good fervices, as well as for the rewards and prefents which he had made in lands privileges to his faithful fullowers, the king beftowed on him the lands of Badenoch and Lochaber.

The battle of Brechin was not immediately decifive The rebelin favour of the king, but proved fo in its confequences, lion fupThe earl of Muray, a Douglas likewife, took advantage prefed. of Huntly's abfence to harals and ravage the eitates of all the royalifts in the north; bat Huntly retursing from Brechin with his vitorious army, drove his enemy into his own county of Mloray, and afferwards expelicd him even from thence. James was now encouraged by the advice of his kinfman Kennedy arclibilhop of St Andiew's, to whofe firmietis and prudence he was under great obligations, to procecd againtt the rebels in a legal manner, by holding a parliament at Edinburgh, to which the confederated lords were fummoned; and $u_{i}$ on their non-compearance, they were folemuly declared traitors. This proceeding feemed to New afto mike the rebellion rage more fiercely than ever ; and ciation aat laft, the confederates, in fach, dilowned their alle-fainf the giance to James. The earls of Dcuglas, Crawford, Us- king ly mond, Moray, the lord Balvety, sir James Hamilton, Doughes, and others, figned with their oivn hands public mani- Crawiord, feftoes, which were pafted on the doors of the principal \$cc. charches, importing, "That they were refolved never to obey command or charge, nor anfwer citalion for the time coming ; becaufe the king, fo far from being a jult matter, was a bloodfucker, a murderer, a tranfgreffor of hofpitality, and a furprifer of the innocent." It does not appear that thefe atrocious proceedings did any fervice to the caufe of the confecicrates. The carl of Hantly continued victorious in the north; where he and his followers, in revenge for the earl of Moray's having burat his caffle of Huntly, feized or ravaged all that novieman's great effate north of the Spey. When he came to the town of Forres, he burned one fide of the town, becaule it belonged to the earl, and fpared the other, becaufe it was the property of his own friends. James thought himfelf, from the behaviour of the easl of Duuglas and his adherent, now warranted to come to extremitics; and marching into Annandaie, he carried fire and fword through all the eliates of the Douglafes there. The earl of Crawford, on the other hand, having now recraited his tlrength, deflroyed the lands of all the people of Angus and of all others who had dbandowed him at the battle of Brechin ; though there is reafou to believe, that he had already fecret!y refolved to throw himifelf uip on the hing's mercy.

Nothing but the moft obfiinate pride and refentment cuuld have prevented the earl of Dooglas, at this time, from taking the advice of his friend, by returning to his duty; in which cafe, lamies had given fullicient intimations that be mighe expect pardon. He coloured his contum.cy with the fpecious pretert, that his brother's fake, and thofe of his two kinitnen, fufficiently inftruted him never to irufl to James or his nininiters ; that he bad gone too far to think now of receding; and that l.ings, when one e ofindel, ac James had ween, never pard med in good e rneil. Sach were the chief realuns, with othe:s of lefs confeque ice, which Drammond has put into the mouth of Dwn sh this time. James, after his cxpedition invo Anninda's, found the

Scotlant. feafon too far advanced to continue his operations; and returning to Edinburgh, he marched northwards to Angus, to reduce the earl of Crawford, who was the fecond rebel of power in the kingdom. That nobleman had hitherto deferred throwing himfelf at the king's feet, and had refumed his arms, in the manner related, only in hopes that better terms might be obtained from James for himfelf and his party. Perceiving that the earl of Deuglas's obftinacy had cooled fome other lords of the confederacy, and had put an end to all hopes of a
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Broken by
the earl of Crawford,
.43
who is rereived into favour. treaty, he refolved to make a merit of breaking the confederacy, by being the firft to fubmit. James having arrived in Angus, was continuing his march through the country, when the earl and fome of his chief followers fell on their knees before him on the road, bareheaded and barefooted. Their dreary looks, their fuppliant poftures, and the tears which ftreamed abundantly from the earl, were expreffive of the moft abject contrition, which was followed by a penitential fpeech made by the eail, acknowledging his crimes, and imploring forgivenefs.
James was then attended by his chief counfellors, particularly Archbihop Kennedy, who, he refolved, flould have fome flare in the favour he meant to extend to the earl. He afked their advice ; which proving to be on the merciful fide, James promifed to the earl and his followers the reftitution of all their eftates and honours, and full pardor for all that had paffed. The earl, as a grateful return for this favour, before the king left Angus, joined him with a noble troop of his friends and followers ; and attending him to the north, was extremely active in fupprefing all the remains of the rebellion there.

The fubmifion of the earl of Crawford was followed by that of the earl of Douglas; which, however, continued only for a floort time. This powerful nobleman foon refumed his rebellious practices; and, in the year $145 t$, raifed an army to fight againt the king. The king ereeted his faindard at St Andrew's; marched from thence to Falkland ; and ordered all the forces of Fife, Angus, and Strathern, with thofe of the northern parts, to rendezrous by a certain day at Stirling; which they did to the number of 30,000 . Dougias affembled his forces, which amounted to 40,000 , fome fay 60000 men , on the fouth fide of the river Carron, nbout half way between Stirling and Abercorn. Notwithitanding this fuperiority of force, however, the earl did not think it proper to fight his fovercign. Archbifhop Kennedy, the prelate of St Andrew's, had advifed the king to divide lis enemies by offering thera pardon feJaratily; and fo good an effect had this, that in a few days thic earl found himfolf deferted by all his numerous army, except about 100 of hi- nearett friends and domettics, with whom he retired towards England. His friends hid indeed ad:ifed him to come to a battle immediately; but the eail, for reafons now unhnown, refuled. In his j. urney fouthward, however, he raifed a confri ${ }^{2}$-ble bolly of forces, confining of lis own tenants, of outlaws, robbers, and hordeters, with whom he renerved his de, :edations on the loyal fubjects of the king. He was oppeffed by the eat of Angur, who, th ughat the mane of Dowghes, e-rtinued firm in the royal c e. Ab en ancat enflied at Ancram muir ; where Douglas w. onireiy deizted, and he himfolf with great difficuliy e.c..ped to an adjacent wood.

What his fate was after this battle does not appear ; but Scolland. it is certain that his eflates were afterwards forfeited to the king.

The reft of the reign of James II. was fpent in ma-King Ja. II. king proper regulations for the good of his people. In killed by $1+60$ he was killed at the fiege of Roxburgh cattle, by accident. the burfting of a cannon, to which he was too near Ano 14600 when it was difcharged. This fiege he had undertaken in favour of Margaret queen of England, who, after lofing feveral battles, and being reduced to diftrefs, was obliged to apply to James for relief. The nobility who were prelent concealed his death, for fear of difcounaging the foldiers, and in a few hours after his queen appeared in the camp, and prefented her fon, James III. as their king.

James III. was not quite feven years of age at his ac- ${ }^{347}$ ceffion to the crown. The adminiftration naturally devolved on his mother; who pufhed the fiege of Roxburgh cafte with fo much vigour, that the garrifon was obliged to capitulate in a few days; after which the army ravaged the country, and tock and difmantled the cafle of Wark.-In 1466 , negociations were begun for Marna a marriage between the young king and Margaret prin- treaty with cefs of Denmark; and, in I 468 , the following condi- of Dencels tions were fipulated. I. That the annual rent hither- of Dento paid for the northern ifles of Orkney and Shetland An. 146s. flould be for ever remitted and extinguifhed. 2. That King Chrifiern, then king of Denmark, flould give 60,000 florins of gold for his daughter's portion, whereof 10,000 fhould be paid before her departure from Denmark; and that the iflands of Orkney flould be made over to the crown of Scotland, by way of pledge for the remainder; with this exprefs provifo, that they fhould return to that of Norway after complete payment of the whole fum. 3. That King James thould, in cafe. of his dying before the faid Margaret his fpoufe, leave her in poffeflion of the palace of Linlithgow and caftle of Down in Menteith, with all their appurtenances, and the third part of the ordinary revenues of the crown, to be enjoyed by her during life, in cafe fhe flould choofe to refide in Scotland. 4. Eut if fhe rather chofe to return to Denmark, that in lieu of the faid liferent, palace, and caftle, fhe fhould accept of 120,000 florins of the Rhine ; from which fum the 50,000 due for the remainder of her portion being deduced and allowed, the iflands of Orkney flould be reannexed to the crown of Norway as before.

When thefe articles were agreed on, Chriftiern found himfelf unable to fulfil his part of them. Being at that time engaged in an unfucceffful war with Sweden, he could not advance the 10,000 florins which he had promifed to pay down as ,part of his daughter's fortune. He was therefore obliged to apply to the plenipotentiaries to accept of 2000 , and to take a farther mortgage of the ints of Shetland for the other 8000 . The D 349 Scottill plenipotentiaries, of whom Boyd earl of Ar- the carl of ran was one, gratified bim in his requif; and this man's faconceffion is thought to have proved fatal to the mily. eatl. Certain it is, that his father was beheaded for treafonable practices alleged to have been committes lung before, and for which he in rain produced a parliamentary indemnity: the carl himkif was divorced from his wife the king's fifter, and obliged to live in perpetunl wile, while the countefs was married to another.

## S C O

Scotland.
350
Beginning of James's misfortuncs.
An. $147^{6}$.

## Is infatua-

ted with
the lietief of aftrolog:

In 1476, thole misfortunes began to come on James which atterwards terminated in his ruin. He had made his brother, the duke of Albany, governor of Berwick; and had entrufted him with very cxtenfive powers on the borders, where a violent propenfity for the feudal law ftill continued. The Humes and the Hepburns, then the moft powerful fubjects in thofe parts, could not brook the duke of Albany's greatnefs, efpecially after he had forced them, by virtue of a late act, to part with fome of the eftates which had been inconfiderately granted them in this and the preceding reign. The pretended fcience of judicial aftrology, by which James happened to be incredibly infatuated, was the eafieft as well as moft effectual engine that could aid their parpofes. One Andrew, an infamous impoftor in that art, had been brought over from Flanders by lames; and he and Schevez, the archbifhop of St Andrew's, concurred in perfuading James that the Scoteh lion was to be devoured by his own whelps; a prediction that, to a prince of James's turn, amounted to a certainty.

The condition to which James reduced himfelf by his belief in judicial aftrology, was truly deplorable. The princes on the continent were fmitten with the fame infatuation; and the wretches who befieged his perfon had no fatety but by continuing the delufion in his mind. According to Lindfay, Cochran, who had fome knowledge of architecture, and had heen introduced to James as a mafter-mafon, privately procured an old woman, who pretended to be a witch, and who heightened his terrors by declariog that his brothar intended to murder him. James belicved her; and the unguarded manner in which the earl of Mar treated his weaknets, exafperated him fo much, that the earl giving a farther loofe to his tongue in railing againft his brother's unworthy favourites, was arrelted, and conamitted to the caltle of Craig Miller; from which he was brought to the Canongate, a fuburb of Elinburgh, where lie fuffered death.

The duke of Albany was at the cafle of Dunbar when his brother the earl of Mar's tragedy w.s acted; and James could not be eafy without having him likewife in his power. In hope of furprifing him, he marched to Dunbar: but the duke, being apprized of his coming, fled to Berwick, and ordered his caltle of Dunbar to be furrendered to the lord Evendale, though not before the garrifon had provided themfelves with boats and fmall t-ffels, in which they efcaped to Insland. He ventured to come to Edinburgh; where James was fo well ferved with fpies, that he was feized, and committed clofe prifoner to the caftle, with orders that he fhould fpeak with none but in the pre ence of lis keepers. The duke had probably fufpected and Providd again?t this difagreeaile cvent; for we are told that he had agents, who every day repaised to the
cafle, as if they had come from court, and repoted the fate of matters between him and the king, while lis keepers were prefent, in fo favourable a light, that they made no dutbt of his foon regaining his liberty, and being readmitted to his brother's favour. The feeming negociation, at lait, went on fo profperoufly, that the duke gave his keepers a kind of a farewell entertainment, previous to his obtaining a formal deliverance; and they drank fo immoderately, that being intoxicated, they gave him an opportunity of elcaping over the caftle wall, by converting the fheets of his bed into-a rope. Whoever knows the fituation of that fortref, mult be amazed at the boldnefs of this attempt; and we are told that the duke's valet, the only dumeftic whom he was allowed, making the experiment before his mafter, broke his neck: on which the duke, lengthening the rope, flid down unlurt; and cant ing his fervant on his back to a place of fifety, he went on board a thip which his friends had provided, and efcaped to France.

In 1482, the king began to feel the bad confequen- An. 1482. ces of taking into his favour men of wortl lefs characters, which feems to hyve been one of this prince's chief foibles. His great favourite at this time was con irin, Cochran, whom he had raifed to the digrity of earl of the k.ng's Mar. All hiftorians agree that this man made a moit vourite. infamous ufe of bis porver. He obtained at lalt a liberty of coinage, which he abuled fo much as to endanger an infurrection among the poor prople: for ho iffued a bale coin, called blick moncy by the common people, which they refufed to take in payments. This favourite's fkill in architecture had firf introduced him to lames; but he maintained his power by other aits: for knowing that his mal er's predominant paffion was the love of money, he procured it by the meancfi and moll oppreffive methods. James, however, was inclined to have relieved his people by calling in Cochren's moncy; but he was diverted from that 1 colutiv? by confidering that it would be agreeable to lis o!d nowility. Befides Coclor,n, James lad other favourites whofe profefions rendered bhem diill lefs worthy of the royal countenance; James Hommil a tayl r, Leonard a black/mith, Torfifan a dancing matter, and fomse others. The favour ftown to thele men gave fo much oflence to the nobility, that, after fi me deliberation, they refolved to rempve the king, with fome of his leatt exce sionable domettics (but without offering any violence to his perfon) to the callle of Edimburgh: bat to hang alt his worthlefs favourites over Lawder bide, then the common place of execution. Their delibera ion was not $h \mathrm{pt}$ fo focret but that it reached the cars of the fawurite ; who, fiffecting the worll, swaicencd James before d-y-break, and informed him of the meeting. He ordered Cochran to repair to it, and to bring hims an account of its proccedings (L). According to Lind-
 idw of the fiety of thet ege. "Cien an (") he), the e tl of M., eame from the king to the council (which council was holdon in the Fiik of Lawder for tie tike), wh wos well acc mpanied with a band of men of war, to the number of $20=1 i$ hat axes, als chat in white livery, and 1.1 cel: bends thereum, that they might be known for Cuch. sh the e 11 of Mar's mo. Hirfe, wanclad in a riling pe of blach relvet, with a great chain of Es' about



Sisitand. fay, who feems to have had very minnte information as to this event, Cochran rudely knocked at the door of
$35^{6}$
with others
of theking' favocrites.

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fames confined in the caftle of Edinburgh.
the church, juft after the affembly had finifted their confultation ; and upon Sir Robert Douglas of Lochleven (who was appointed to watch the door) informing them that the earl of Mat demanded admittance, the earl of Angus ordered the door to be thrown open; and ruhing upon Cochran, he pulled a maffy gold chain from his neck, faying, that a rope would become him better; while Sir Kobert Douglas Atripped him of a coftly blowing horn he wore by his fide, as was the manner of the times, telling him he had been too long the hunier of mifchief. Cochran, with altonifhment, afked them whether they were in jeft or earneft ; but they foon convinced him they were in earneit, by pinioning down his arms with a common halter, till he fhould be carried to execution.

The earl of Angus, with fome of the chief lords, attended by a detachment of troops, then repaired to the king's tent, whule they feized his other favourite, Thomas Prefton, Sir William Rogers, James Hommil, William Torfifan, and Leonard: and upbraided James himfelf, in very rule terms, with his mifconduct in government, and even in private life, in not only being counfelled by the above minions, but for keeping company with a lady who was called the Daify. We know of no refiftance made by James. He only interceded for the fafety of a young gentleman, one John Ramfay of Balmain. Cochran, with his other worthlefs favourites, were hanged over Lawder bridge before his eycs; and he himfelf was conducted, under an eafy reitraint, to the caitle of Edinburgh.
James, though confincd, behaved with great fpirit; and even refufed to pardon thofe who had confined him, or who had any hand in the execution at Lawder. At laft, however, he was relieved by the duke of Albany, who, at the queen's defire, undertook to deliver her hulband from confinement. This he accompliffed, as fome fay, by furpriling the caftle of Edinbursh; thoush, according to others, the gates were opened, on a formal requifition made for that purpofe by two heralds at arms. After he had obtained his liberty, the king repaired to the abhey of Holyroodhoufe with his brother, who now acted as his firf minilter. All the lords who were near the capital came to pay him their compliments; but James was fo much exafperated at what had happened, that he committed 16 of them prifoners to the caftle of Edinburgh. After his releafe, James granted a patent to the citizens of Edinburgh, and enilarged their privileges.

In 1487, James finifhed fome fecret negociations in which he had been for fome time engaged with Henry VII. king of England. The principal articles agreed on between the two monarchs were, That King James's fecond fon ftould marry Catherine the third daughter of Edward IV. and fifter to the princefs Elizabeth, now queen of England; and that James himfelf, who was now a widower, fhould marry Queen Elizabeth. A third marriage was alfo to be concluded between the
duke of Rothefay and another daughter of Edward IV. That in order to thefe treaties, and for ending all con scolland. troverfies conce!ning the town of Herwick, which the king of Scotland defired fo much to poffefs, a congrefs fhould be held the enfuing ycar.

But in the mean time a moit powerful confederacy a $3^{3^{6}}$ was formed againft the king; the origin of which was fut confedeas follows. James was a great patron of architecture; racy formand being pleafed with the fituation of Stirling caftle, ed againft he refolved to give it all the embellihments which that art could beftow ; and about this time he made it the chief place of his refidence. He raifed within it a hall, which at that time was deemed a noble ftructure; and a college, which he called the chapel-royal. This college was endowed with an archdean who was a bithop, a fubdean, a treafurer, a chanter and fubchanter, with a double fet of other officers ufually belonging to fuch inftitutions. The expences neceflary for maintaining thefe were confiderable, and the kitig had refolved to affign the revenues of the rich priory of Coldingham to that purpofe.' 'This priory had been generally held by one of the name of Hume; and that family, through length of time, confidered it as their property : they therefore ftrongly oppofed the king's intention. The dif pute feems to have lafted for fome years; for the former parliament had pafied a vote, annexing the priory to the king's chapel royal ; and the parliament of this year had paffed a ftatute, ftrictly forbidding all perfons, fisitual and temporal, to attempt any thing, directly or $\mathrm{Owing}^{36 \pi}$ indirectly, contrary or prejudicial to the faid union and a quarred anmexation. The Humes refented their being fripped family of of fo gainful a revenue, the lofs of which atiected molt Hume. of the gentlemen of that name; and they united themfelves with the Hepburns, another powerful clan in that neighbourhoud, under the lord Hales. An affuciation was foon formed; by which both families engaged to ftand by each other, and not to fuffer any prior to be received for Coldingham, if he was not of one of their furnmes. The lords Gray and Drummond foon joined the allociation; as did many other noblemen and gentiemen, who had their particular caufes of difontent. Their agents gave out, that the king was grafping at arbitrary power; that he had acouired his popularity by deep hypocrily; and that he was refolved to be fignally revenged on all who had any hand in the execution at Lawder. The earl of Angus, who was the foul of the confederacy, advifed the confpiators to apply to the old earl of Douglas to head them : but that nobleman was now dead to all ambition, and inftead of encouraging the conpirators, he pathetically exhorted them to break of all their rebellious connections, and return to their duty; exprefting the moft fincere contrition for his own pait corduct. Finding he could not prevail with them, he wrute to all the numerous friends and defcendants of his family, and particularly to Douglas of Cavers, fheriff of Tevioldale, diffuading them from entering into the confpiracy; and fome of his original letters to that cflicet are faid to be $11 i l l$ extant. That great man furvived this application but a flort
time ;

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## 5 C O

Scotlad. time; for he died without iffue at Lindores, on the 15 th of April 1488 ; and in him ended the firl braath of that noble and illuftrions houfe. He was remarkable for being the mort learned of all the Scots nobility, and for the comelinets of his perfon.

James appears to have been no franger to the proccedings of the confipirators; but though he dreaded them, he depended on the protection of the law, as they did on his puillanimity. His degeneracy in this refpect is remarhable. Defcended from a race of heroes, he was the firit of his family who had been branded wih

## Exunction

of the
pritacipal branch of the family of Douglas An. $144^{\text {S }}$ cowardice. But his conduct at this time fully juftifies the charge. Inftead of vigoroully fupporting the execution of the laws in his own perion, he flut himelf up in his beloved caftle of Stirling, and raifed a body guard ; the command of which he gave to the lord Bothwel, mater of his houfehoid. He likervife iffeed a proclamation, forbidding any perfon in arms to approach the court; and Bothrei had a warrant to fee the fame put in execution. Though the hing's proceediags in all this were perfectly agreeable to laws, yet they were given out by his enemies as fo many indications of his averlion to the tocoility, and ferved only to induce them to parade, armed, abont the country in more numerous bodies.

The conncetions entered into by Jomes with Henry THI of England, alarmed the confpiratore, and made them refolve to ftrike the great blow, before James could avail himfelf of an alliance that feemed to place him above all oppoition cither abread or at home. The acquifition of Bersxick to the crown of Scotland, which was looked on to be as good as concluded; the marriage of the duke of Rothefay with the daughter of the dowager and fifier to the confurt queen of England; and, above all, the firict harmony which reigned between James and the flates of his kingdem, renderel the coafpirators in a manner delperate. Belides the cari of Angus, the earis of Argyle and Lenex favoured the confpirators. When the whole of James's convertion with England is confidered, and compared with afterevents, nothing ean be more plain, than that the fuccefs of the conrpitators was owing to his Englith conrecefions; and that they made ufe of them to affirm, that Scotland was foon to beceme a prowirce of Ensland, and that James intended to govern kis fuljects Ey an Englifh furce.-Thofe frecious allegations did the confpirators great fervice, and inclined many, even of the moderate party, to thsir caule. They foon tock the field, appointed their rendezvoufes, and all the fouth of Scotland was in arms. James continued to rely on the authority of his parliament; and fummoned, in the terms of haw, the infurgents to andwer at the proper
${ }^{36} 4$ tiibunals for thei: repeated breaches of the peace. Is ret at de. The coulpirators, far from paying any regard to his fince by citations, torc them in pieces, buffed and otherwife tha confi-
rators. rators.
maltreated the meniengers, and fet the laws of their courtty at open defiaice. Even north of the Forth, the heads of the heufes of Gray and Dr:mmond fpread the fpirit of difaffection through the populous connties of Fife and Angus; hut the countics north of the Grampians continued firm in their duty.

The duko of Rothefay was then a promifing youth about fifteen years of age; and the fuhiecting the kingtom of Scotland to that of England being the chief, if not the only caufe urged by the rebels for
their appearing in arms, they naturally threw their eyes Soutand. upon that prince, as his appcarance at their head voouid give firength and vigou: to their caufe; and in this they were siot cleceived. James, in the menn time, firiding the inhabitants of the fouthern provinces cither were engage.! in the rebellion, or at bett ol ferved a cold neutrality, embarked on boaid a veffiel which was then lying in the frith of Fortin, and pafied to the north of that river, not finding it fafe to go by land to S:irli: g. Arriving at the cafle, he gave orders that the The duke duke of Rothefay (as if forefceing what afterwards hap- of rothepened) thould be put under the carc of one Schavy of fay put into Sauchie, whom he had made its goresnor, charging him gensunenot to lufier the prince on any accoust to depart out of the fort. The rebels giving out that James had fled to Flanders, plundered his equipages and baggage before they paffed the Forth; and they there found a large fiem of monc., which proved to be of the utmoft confequence to their afiairs. They then furprifed the caf- succefs of tle of Dunbar, and plandered the houles of every man the rebels. to the fouth of the Forth whom they fufpected to be a royaait.

James was all this time oraking a progref, and holling courts of jultice, in the north, where the great families were entirely deroted to his fervice, particularly the carls of Huntly, Errol, and Marflal. Every day brought him frelh alarms from the fouth, which left him no farther room either for delay or deli, beration. The confpirators, notwithlanding the promifing appearance of thcir affuirs, found, that in a flort time thei: coufe muft languilh, and their numbers dwindic, unicis they were furnihed with frefli pretexts, and headed by a peifon of the greatelt anthurity. While they were deliberating who that perion fhould be, the e.in of Angus boldiy propofed the duke of Rothetay; and an imniediate application was made to Schaw, the youns prince's governor, who fecretly favoured their ${ }^{367}$ caufe, and was prevaited on by a confiderable fum of They ate meney to pat the prince into their hands, and to de-headed hy clarc for the rebeis.
James having ordered all the force in the north to affemble, haried to Perth (then cailed St Jolm's town), where he ajpointed the eendezveus of his army, which amomited to 30,050 men. Among the oher noblemen who attended him nas the famo:is lord David Lindfay of the Byres (an officer of great courage and experience, kaving long ferved in foreign countries), who hadad $3000^{\circ}$ foot and 1000 horfe, raifed chictly in Fitcenire. Upon his approaching the king's perfon, he prefented him with a horfe of remakable fpirit and beauty, and informed his majefty, that he might truft his life to his agiiity and fure footednefs. The lord Ruthien, who was ileriff of Strathern, and ancefor (if we miltake nct) to the unfortunate earls of Cowrie, joined James at the head of 3000 well arm dmen.The whole army being affembled, lames proccedcd to Tamis asStirling ; but he was intonilhed, when ac was not only fember be denied entrance into tise cafle, but faw the guns point- army. ed againft his perfon, and underfood, for thie Grfit time, that his fon was at the head of the rebels. Schaty preterded that the duke of Rothefay had becn carried off againft his will: but the king's anfwer was, "Fye, traitor, thou haft deceived mc ; and if I live I thall be revenged on thee, and thon fhalt be rewarded as thou hait deferved." James lay that night in the torm of

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## S C O $\left[\begin{array}{lll}\text { 6.6 }\end{array} \quad\right.$ S C O

 (allane that the ieblels were advand, in fornacd IS lion d! fuitle. The earl of Athol h.? uncle, who nas truiled by boti parties, propofed an accommodation ; which $v$ as according ly efficted, if we are to beHieve Abecreromby and other hilturians ; but we kloow not the terme, for mone are menticned on either fide.James is laid to have failed on his fart ; tut had thete been any grounds fur fuch a charge againt him, there can fearcely be a doubt that the rebels would lave publihited therm. That a treaty was entered into is patt difipute; and the eall of Athol furrendered him!elf as a lioftage into the hands of the rebels.

James was fenfible of the advantage which public clamour gare to his enemics; and he applied to the kings of France and England, and the pope, for their interpofition. His holinc(s named Adrian de Cafello for lis nuncio on that occafion; and the two kings threatened to raife troops for the fervice of James. He, ty a fatality not uncommon to weak princes, left the ittrong cafle of Edinburgh, where he might have been in fafety, till his friends, who had difperfed themfielves upon the faith of the late negociation, could be realiembled; and croffing the Forth, he made another attempt to be admitted into the callle of Stirling ; but was difappoiried, and informed that the rebels were at Torrwcod in the neighbourbood, and ready to give him batile. He was in poffiefion of the caitle of Blackne:s; his admiral, Wood, commanded the Forth; and Its loyal fubjects in the north were upon their march to join lim. Haw thornden fays, that the rebels had made a fhow of difmiffing their troops, that they might draw James into the field; and that while he remained at Blacknefs, he was attended by the earls of Montrofe, Glencairn, and the lords Maxwell and Ruthven. To give his northern troops time to join him, he propofed a negociation; but that was foon at an end, on the rebels peremptorily requining him to refign his crown to his fon, or rather to themfelves.

## s,

The rebels lad been inured to war. They confifed chicity of borderers, well armed and difciplined; in which thy had the advantage of the king's Lowland fubjeeds, who had not been accullomed to arms. What the numbers on both fides were does not clearly appear ; but it is probable that the forces of James were fuperior to the rebels. They were then at Falkirk; but they foon pafied the Carron, encemped above the bridge near Torwood, and made fuch difpofitions as rendered a batlle unavoidable, unlefs James would have diferfed his army, and gone on board Wood's fhips: but he did not know himielf, and refolved on a battle. He was encamped at a fmall breok named Sauchie burn, near the fime frot of ground where the great Bruce had defeated the Engliith under Edward the fecond. The earl of Menti h, the lords Erkkine, Graham, Ruthren, and Maxwell, commanded the frift line of the kirg's army. The fecond was commanded by the earl of Glenceirn, wio was at the head of the Weflland and Highliand men. The earl of Ciarrford, with the lord Boyd and li.iday of Byres, commanced the rear, wherein the K'ng's main flter thth confifted, and where he himfelf appeared in perfor, completely armed, and mounted upen the finc horfe which had been prefented to him by Liiddiy.
The firf line of the royalifs obliged that of the re-
bcl , to she w.y 1 ut the latler being faprortec by the $\mathrm{A}:$ numd h. .ent at 1 bordeiers, t.e firitt aid iccond lii.e of doe :may were beat back to the thind.
 the tirt wilet ; is I he had put fpurs to his horfe, in liwamy. tending to gim the balks of the Forth, and to go cn buard cne of Whocd's thips. In pating through the villase of Thertachburn, a woman who was filing her fitcher at the brook, frightened at thic fight of a man in armour galloping tull fpeed, left it Lehind lier ; and the horle taking iright, the king was thrown to the ground, Is thiown and carried, bruited and maimed, by a miller and his wife, trom his into their hovel. He immediately called for a priett to horfe, and make his confeffion; and the ruftics demanding his mudered, name and rank, "I was (faid he incauticully) your An. 1485 king this morning." The woman, ovescome with attoniffment, clapped her hands, and running to the door called fer a pricit to confeis the king. " 1 am a prieft (faid ore palling by), lead me to his majefly." Being intioduced into the hovel, he faw the king covered with a coarle cloth; and kneeling by him, he afked James whether he thought he could recover, if properly attended by phyficians? James anfwering in the aftirmative, the villain pulled out a dagger, and flabbed him to the heart. Such is the dark account we are able to give of this prince's unhappy end. The name of the perfon who mu:rdered him is faid to have been Sir Andrew Borthwick, a prieit, one of the pope's knights. Some pretend that the lord Gray, and others that Robert Stirling of Keir, was the regicide; and even Buchanan (the tenor of whofe hiftcry is a juftification of this murder), is uncertain as to the name of the perfon who gave him the fatal blow.

It is rrobable that the royalifis loft the battle through the cowardice of James. Even after his flight his troops fought bravely; but they were damped on receiving the certain accounts of his dcath. The prince, ycung as he wns, had an idea of the unnatural part lie was acking, and before the battle he had given a ftrict clarge for the fafety of his father's perfon. Upon hearirg that he had retired from the field, be fent orders that none thould purfiee him; but they were inefficetual, the rebels being fenfible that they could have no fafety but in the king's death. When that was certified, hoftilities feemed to ceafe; nor were the royalifts purfued. The number of flain on both fides is uncertain; but it muft have been confiderable, as the earl of Glencain, the lords Sempil, Erfisine, and Ruthren, and other gentlemen of great eminence, are mentioned. As to the Griet 373 duke of hothefay, who was now hing, he appeared in-kn for his confolable when he heard of his tather's death; but death. the rebels endeavoured to efface his grief, by thie profufion of honours they paid him when he was recognized as king.

The icmorfe and anguifh of the ycung king, on reflecting upon the unnatual part which he had acted, was inexpreftble; and the noblemen wlio had been engaged in the rebellion became arprehenlive for their cun fafety. The cataflrople of the unfortunate lames III. however, was not yet become public; and it was thouglat by many that he had gone aboard one of the fhips belonging to the Srottilh admiral Sir Andyew Word. James, willing to in dulge hope as long as it was peffble, defired an interview with the admiral; but the latter refufed to come on fhore, unlefs he had
fufficient

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Scotland. fufficient hoftages for his fafety. Thefe being delivered, Sir Andrew waited on the king at Leith. He had

374 Nuble behaviour of Sir Andrev Wood. again and again, by meflages, affured him that he knew nothing of the late king; and he had even offered to allow his fhips to be fearched: yet fuch was the anxiety of the new king, that he could not be fatisfied till be had examined him in perfon. Young James lad been long a ftranger to his father, fo that he could not have dittinguithed him eafily from others. When Wood, therefore, entered the room, being ftruck with his noble appearance, he alked him, "Are you my father ?" " I am not," replied Wood, burlting into tears ; " but I was your father's true fervant, and while 1 live I fhall be the determined enemy of his murderers." This did not fatisfy the lords, who demanded whether he knew where the king was. The admiral replied, that he knew not; and upon their queftioning him concerning his manceuvres on the day of battle, when his boats were feen plying backwards and forwards, he told them, that he and his brother had determined to affift the king in perfon; but all they could do was to fave fome of the royalifts in their fhips. "I would to God, (fays he), my king was there fafely, for I would defend and keep him fkaithlefs from all the traitors who have cruelly murdered him: for I think to fee the day to behold them hanged and drawn for their demerits." This fpirited declaration, and the freedom with which it was delivered, ftruck the geilty part of the council with difmay; but the fear of facrificing the hoflages procured Wood his freedom, and he was fuffered to depart to his fhips. When he came on board, he found his brother preparing to hang the two lords who had been left as hoftages; which would certainly have been their fate, had the admiral been longer detained.

Wood had fearcely reached his fhips, when the lords, calling the inhabitants of Leith together, offered them a large premium if they would fit out a fufficient force to deftroy that bold pirate and his crew, as they called Wood; but the townfmen, fwho, it feems, did not much relifh the fervice, replied, that Wood's fhips were a match for any ten fhips that could be fitted out in Scotland. The council then removed to Edinburgh,
375 where James 1V. was crowned on the 24 th of June 1488 . Review If we were to form an opinion of the manners of the reinn of thefe times from the flatutes enacted by the Scottifh James III. parliament during the reign of James III. we fhould luppofe them to have been more refined than is evinced by the actions which we have jult related. By thofe ftatutes the rights of the church were again confirmed, yet we have feen, from events, how little effect religion had produced on the morals of the age. One of the firft acts of this reign was, to give the hing the right of prefentation to all benefices of ecclefiallical patronage, while the epifcopal fees were vacar,t. The king was enapowered to hold plea of any matter perfonally, at his empleafance, as it was wont to be of before. The parliament again delegated to a few of its members the whole legilative power, yet was it not felt in that age, as begetting contempt, and confequently difobedience. The leges burgornm: were declared to be part of the law, and the books of reyiam maiflat m were called lis majefly's laws. In thefe decliretions ve may perceire that the legil tors of thofe times were not very arcurate antiquaries, yet did the eftotes difplay a juf anxiety for the prefervation of their rolls ard regifer:, by directing

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that they fhould be entered in books. With an allu- Scotland. fion, perhaps, to the atrocities of that period, the three clfates declared that murder and affaffinations were not to be entitled to fanctuary. During this terrible reign, the parliament difplayed more zeal than knowledge for promoting the agriculture and fillery, and for regulating the trade, coinage, and fhipping of a people who ftill wanted credit, capital, and circulation, for the enjoyment of an active and profitable commerce. The legiflative acts of this reign fhew, to an inquifitive eye, fome progrefs towards civilization, though the hiftory of its political events attelts that there had been little improvement in the morality of the national character, or in the refinements of domettic life.

In the month of October this year, the nob:lity and others who had been prefent at the King's coronation, converted themfelves into a parliament, and paried an act by which they were indemnified for their rebellion againt their late fovereign ; after which, they ordered the act to be exemplified under the great feal of Scotland, that it might be producible in their jullification if called for by any foreign pri, e. They next proceeded to the arduous tafk of vindicating their rebellion in the eyes of the public; and fo far did they gain on the king by force of flattery, that he confented to fummon the lords who had taken part with his father, toore the parliament, to anfwer for their conduct. In confe- Trial of quence of this not fewer than 28 lords were cited to ${ }^{\mathrm{L}}$ rd Daappear at Edinburgh in the fpace of 40 days. The vid Lindfay firit on the lift was the lord David Lindfay, whofe form of arraignment was as follows. "Lord David Lindfay of the Byres, anfwer for the cruel coming againit the king at Bannockburn with his father, giving him counfel to have devoured the king's grace here prefent; and, to that cffect, gave him a fword and a good horfe, to fortify him againft his fon. Your antwer hereto." Lord Lindfay was remarkable for the bluntnefs of his converfation and the freedom of his fentiments ; and being irritated by this charge, he delivered himfelf in fuch a manner concerning the treafon of the rebellious lords, as abafhed the boldelt of his accufers. As they were unable to anfwer him, all they could do was to prefs him to throw himfelf on the king's clemency; which he refuftd, as bing guilty of no crime. His brother, Patrick Lindfay, undertuok to be his idvocate, and apologized on his knees for the reughnefs if his behaviour, and at laft obferved an i:formality in 1 . . proceedings of the court; in confeguence of whic ? Lindfay was releafed, on entering into recognizanic to appear again at an appointed dy : but lie was afterwards fent prifoner by the king's order, for a whole year, to the caltle of Rothefay in the in of Bute.

The regicid s now endeav ured to g in the public favour by aftecting a ftrict a lmi iftr tion of jumice. The king was advifed to make a progr s round the kingdum, attended by his comeil nd jaires; wlile, in the mean time, ceitain noblemen and gentlemen were, appointed to evercif juflice, and to ip refs all kinds of dif rders in their own $1 \mathrm{l} / \mathrm{d}$, nd is 1 i ic auiviaing to? them, till the king eame to th: ayce ci 21. 'The reenory of the late kite sav bralied in tie mo oro-
 were poite Ted of lari bile Crime. I ut who kad taken uip arms for the late kilg, were ei her dprived of then for three years, or rendered inc spable of en oying then.

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s.aclani. for ever atter. All the young nobility who had been -roditinlerited by their fathers for taking arms againft the late hing, were, by act of parliament, reltored to their fereral facceffions in the molt ample manner. At last, in order to give a kind of proof to the world that they intended only to refettle the itate of the nation, wi.hout prejudice to the lower ranks of fubjects, who did no more than follow the examples of their fu;eriors, it was enacted, "That all goods and effects taken from burgefles, merchants, and thofe who had only perfonal efates, or, as they are called, unlanded men, fince the battle of Stirling, were not only to be reltored, but the owners were to be indem:ified for their lofies; and their perfons, if in cuflody, were to be fet at liberty. Churchmen, who were taken in arms, were to be delivered over to their ordinances, to be dcalt with by them according to the law." The caftle of Dunbar was ordered to be demolihed; and fome ttatutes were enacted in favour of commerce, and for the exclufion of foreigners.

Thefe latt acts were paffed with a vjew to recompenfe the boroughs, who had been very active in their oppofition to the late king. Before they diffolved their parliament, the lords thought it neceffary to give fome public tettimony of their dilapproving the late kin-'s tive to the noble as bory a tive to the noble princefs, born and drfonded of a noble and worhing's mar- /bipfui houfe, an honourable embally iloould be fent to siage. the realms of France, Brittany, Spain, and other places, in order to conclude the inatter." This embaffy was to be very fplendid. It was to confitt of a bihop, an earl, or lord of parliament, a fecretary, who was generally a clergyman, and a knight. They were to be attended by 50 horfemen; 50001 . was to be allowed them for the difcharge of their embafly, and they were empowered to renew the ancient league between France and Scotland; and, in the mean time, a herald, or, as he was called, a trufly fquire, was fent abroad to vifit the feveral courts of Europe, in order to find out a proper match for the king. One confiderable obflacle, however, lay in the way of this embaffy. The pone had laid uncler an interdict all thofe who had appeared in arms againft the late king; and the party who now governed in Scotland were regarded by all the powers of Europe as rebels and murderers. The embalfy was therefore fufpended for a confiderable time; for it was not till the year 149 I that the pope could be prevailed on to take off the interdict, upon the mof humble fubmilions and profelions of repentance made by the guilty parties.

In the mean time, the many good qualities which difcovered themfelves in the young king began to conciliate the affections of his people to him. Being confisered, however, as little better than a prifoner in tie thands of his father's murderers, feveral of the nobility made ufe of that as a pretence for taking arms. The moft forward of thefe was the earl of Lenox, who with 2000 men attempted to furprife the town of Stirling; but, being betrayed loy one of his own men, he was defeated, taken unawares, and the catile of Dumbarton, of which he was the keener, taken ly the opnfie party. In the north, the earls Muntly and Marfhal, with the lord Forbes, complained that they had been deceived, and declared their refolution to revenge the

1ate king"s death. Lord Forbes having procured the 5.otand. bloody hift of the murdered prance, ciiplayed $i$ on the point of a lance, as a bamer under whith ail loyal fubj - cta ha culd enlit tiomfelves. Afuer the deteat of Lenox, however, themorthern chieftains found themielves incap:bse of marching fouthwands, and were therefore o. lifed to abandon their enterpric. The caute of the Heniy VII. nuitdered king was next undertanen by Henry V11. Ee:小 five of England, who made an cffer to sir Andiew Wood fi ps tor of five thips to revenge it. The admial accepted the piote. propoial; but the Englith beharing as pirates, and plundering indifcriminately all who came in their way, l.e thought proper to feparate himfelf from them, yet without offering to attack or oppofe them, Upon this: James was advined to fend for the admiral, to offer him a pardon, and a commifion to act againit the Englith ${ }^{384} 4$ freebooters. Wood accepted the kit g's offer ; and be- Who act ing well provided with ammunition ato arlillery, fie, with ard are ali tro fhips only, attacked the five E.g.ifh voflels, all oft. ken by which he took, and brought thicir crews pritoners to Sir trdrew Leith, for which: he was nobly rewarded by his majeity.

This conduct of Wood was highly refented by the king of England, who immediately vowed revenge. Tho Scottifh adrimal's fhips had been fitted out for commerce as well as war, and Henry commanded his bett lea-officer, Sir Stephen Bull, to intercept him on his return S r Stephen from Fand re, whither hie had gine upon a commercial Bu: feut aroyage. Wond had not more than two thips with him: scumt the the Englith adaniral iad three; and thele much larger, aural. and carring a greater weight of metal, than the Scottith veffels. The Englinh took their thation at the illand of May, in the mocth of the frith of Forth, and, having come untwares upon their enemies, fired two guns as a figmil for their finrendering themfelves. The Scottilh commander encouraged his men as well as he could; and findino them determined to ftand by bim to the li:lt, began the engagement in fight of numberlefs fpectators Who appeared on both fides of the frith. The fight continued all that day, and was renewed with redoubled fury in the morning; but, in the mean time; tbe ebbtide and a fouth wind had carried both fquadrons to the mouth of the Tay. Here the Englih fought under great difadvantages, by reafon of the fand-banks; and before they could get clear of them, all the three were obliged to fubmit to the Scots, who carried them to Dindee. livood treated his prifoners with great humanity; and having afterwards prefented them to King But is taIames, the latter difmiffed them not only without ran-his Bips. fom, but with prefents to the officers and crews, and a letter to King Henry. To this Henry returned a polite anfwer, a truce was concluded, and all differences for the pretent were accommodated.

James all this time had continued to difplay fuch mo- An. 1490 . deration in his government, and appeared to lave the adrantage of his futjeets fo much at heart, that they became gradualiy well affected to lis government, and in 1400 all parties were fully reconciled. We may hence date the commencement of the reign of James IV.; and the next year the happinefs of his kingdom was completed, by taking off the pope's interdict, and giving the king abfolution for the concern he had in his father's death.

Tranquillity being thus reftored, the negociations concernins the king's marriage began to take place, but met with feveral interruptions. In 1493, TYenry VII. propofed

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propoied a match ketween the king of Scollme and his coulin the princels Catharine. Janes was too much attached to lrance to be fond of Englith connections, and probioly thought this mateh below his dignity; in confequence of which the propolal was treated with con-

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Nathase-
tr 14 w"th Eus ind. A. $1+95$. Notwithtanding this ill fuccets, fowever, Hemry made another offer of alliance with James; and, in 1455 , propofed a marriage betwixt him and his c.deft daughter Margaret. This propofal was accepted: but the match feems not to have been at all agrecable to James; for, at the very time in which he was negociating the marriage, he not only protected Perkin Warbeck, the avowed enemy and pretender to the crown of Henry, but invaded England on his account. This conduct was highly refented by the Englift parliament ; but Henry himfelf forgave even this grols infult, and the marriage negociations were once more refumed. The bride was no more than ten years and dix months old; and being only the fourth degree of blood from James, it was neceflary to procure a difpenfation from pesce with peace concludet between the two nations, on the that nation. It of July 1503 , being the firft that had takea place for An. $15<3$. 170 years, fince the peace of Northampton cuncluded between Robert 1, and Edward III.

One of the great ends which Henry had in view in promoting this marriage, nas to detach James from the French interelt: no fooner, therefore, was the treaty figned, than be wrote to his fon-in-law to this purpofe; who, however, politely declined to break with his ancient ally. On the 16 th of June, the royal bride fet out from Richmond in Surrey, in company with her father, who gave her convoy as far as Collewefton, the refidence of his mother the countel's of Richmond.s After paffing fome days there, the king refigned his daughter to the care of the earls of Surrey and Northumberland, who proceeded with her to the borders of Scotland. Here many of the company were permitted to take their leave; but thofe who remained ftill made a royal appearance. $\Lambda_{t}$ Lamberton-church they were met by James, attended by a numerous train of his no-
bility and offerers of flate. From Inmberim the? foo ceeded to Datkeith, and next dav to Edinburgh; winere the nuptials were celebrated with the greatett fylendor. On this occalion, it is laid that the Scots furpaffed all their guefts in extravagance and luxury ; a circumilance which inuft be imputed to the great intercourfe and commerce which lames and his fubjects maintained with foreign courts and countries.

Afier the celebration of the nuptials, James appcars James be to have enjoyed a tranquillity unknown almoit, to any of his predeceffors; and began to make a confiderable figure among the European potentates. But the magniffence of his court a.id embaffies, his liberality to ftrangers and to learned men, his coftly edifices, and, above all, the large fums he laid out in flip-building, had now brought him into fome difficultics; and he to far attended to the advice and example of his father-inlaw, that he fupplied his neceffities by reviving dormant penal laws, particularly with regard to wardhips and old titles of eftates, by which he raifed large lums. Though he did this without affembling his parliament, yet he found agents who juitilied thole proceedings, in the fame manner as Epfom and Dudley, did thofe of Henry, under the fanction of law. At laft, however, touched with the fufferings of his fubjects, he ordered all profecutions to be flopped. He even went farther : for, fenfible of the deteltation into which his father-inlaw's avarice had brought himfelf and his adminiftration, he ordered the miniters who had advifed him to thole fhameful courfes to be imprifoned; and fome of them, who probably had exceeded their commiffion, actually died in their confinement.

About this time, James applied himfelf, with incre- Applies dible affiduity, to the building of fhips; one of which, humelf to the St Michael, is fuppofed to have been the largelt mantime then in the world (a). He worked with his own hands in building it; and it is plain, from his conduct, that he was afpiring to maritime power, in which he was encouraged by the excellent feamen which Scotland then produced. The firft effay of his arms by fea was in favour of his kinfman Juln king of Denmark. '1lhis ${ }_{4} \mathrm{O}_{2}$ prince
(3) Of this hlip we have the following account by Lindfay of Pitfcottie. "In the fame year, the king of Scotland bigged a great fhip, called the Great. Wchacl, which was the greateft finip, and of moft ftrength, that ever failed in England or France. For this fhip was of fo great flature, and took fo much timber, that, except Falkland, fhe walted all the woods in Fife, which was oak-wood, by all timber that was gotten out of Norway; for fhe was foftrong, and of fo great length and breadth (all the wrights of Scotland, yea, and many other flrangers, were at her device, by the king"s commandment, who wrought very bufily in her: but it was a year and day ere the was complete) ; to reit, fhe was twelve fcore foot of length, and thirty fix foot within the fides. She was ten foot thick in the wall, outted jefts of oak in her wall, and boards on cvery fide, fo ftark and fo thick, that no cannon could go through her. This great hip cumbered Scotland to get her to the fea. From that time that fhe was athoat, and her malts and fails complete, with tows and anchors effeiring thereto, fhe was counted to the king to be thirty thoufand pounds of expences, by her artillery, which was sery great and cofly to the king, by all the reft of her orders; to wit, fhe bare many cannons, fix on every fide, with three great baflils, two behind in her dock, and one before, with three hundred thot of limall artillery, that is to fay, myand and battret-falcon, and querter-falcon, flings, peffelent ferpetens, and double-dogs, with hagtor and culvering, cors-bows and handbuts. She had three hundred mariners to fail her ; fhe had fix fcore of gunners to ufe her artillery ; and had a thoufand men of war, by her captain, fhippers, and quarter-mafters.
"W'hen this fhip paft to the fea, and was lying in the road, the king gart flivot a cannon at her, to effar her it fle was wight; hut I heard fay, it deared her not, and did her little fikith. And if any man believe that this defeription of the fhip be not of verity, as we have written, Ict him pafs to the gate of Tillibardin, and there, afore the fame, ye will fee the length and breadth of her, planted with hawthorn, by the wright that helped to make her. As for other properties of her, Sir Andrew Wood is my author, who was quarter maticr of her; and ho. bert Dartyne, who was mafter-flipper."

## S C O

Scotland. prince was brother to the queen dowager of Scotiand; and had partly been called to the throne of Sweden, and partly pollefied it by force. He was oppofed by the adminititrator, Sture, whom he pardoned after he was crowned. Sture, however, renewing his rebellion, and the Norwegians revolting at the fame time, John found himelf under fuch difficulties, that he was forced to return to Denmark ; but he left his queen in poffeffion of the caftle of Stockholm, which fie bravely defended againft Sture and the Swedes. This heroic princefs became a great favourite with James; and feveral letters that pafied between them are tilll extant. The king of Denmark, next to the French monarch, was the favourite ally of James; who, early in his reign, had compromifed fome differences between them. It likewile appears, from the bittories of the north, that both James and his father had given great affiftance to his Danilb majelty in reducing the Norwegians; and he refolved to become a party in the war againft the Swedes, and the Lubeckers who affited them, if the former continued in their revolt. Previous to this, he fent an ambafiador to offer his mediation between John and his fubjects. The mediation was accordingly accepted, and the negociations were opened at Calmar. The deputies of Sweden not attending, John prevailed with thofe of Denmark and Norway to pronounce fentence of forfeiture againft Sture and all his adherents. In the mean time, the fiege of the caftle of Stockholm was fo warmly prefled, that the garrifon was diminifhed to a handful, and thofe deftitnte of all kinds of provifions; fo that the brave queen was forced to capitulate, and to furrender up the fortrefs, on condition that fhe might be fuffered to depart for Denmark; but the capitulation was perfidioufly broken by Sture, and the was confined in a monaftery.

It was on this occafion that James refolved to employ his maritime power. He wrote a letter, conceived in the ftrongeft terms, to the archbihop of Upfal, the primate of Sweden, exhorting him to employ all his authority in favour of the king; and another letter to the Lubeckers, thrcatening to declare war ayainft them, as weil as the Swedes, if they jointly continued to affift the rebels. According to Hollinfhed, James, in confequerce of King John's application, gave the command of an army of 10,000 men to the earl of Arran, who replaced John upon his throne. Though this does not appear to be firioly truth, yet it is certain, that, had it not been for James, Joln mult have funk under the weight of his enemies. Sture, whofe arms had made great progrefs, hearing that a confiderable armament was fitting out in Scotland, aind knowing that James had prevailed with the French king to affift Iohn likewife, agreed to releafe the queen, and to conduct her to the frontiers of Denmark ; where he died. By this time, James's armament, which was commanded by the earl of Arran, had fet aill ; but perceiving that all matters were adjufted between John and the Swedes, the flips returned fooner than James expected, "which (fays lie, in a very polite letter he wrote to the queen upon the occafion) they durf not have done, had they not brought me an account that her Danifh majefty was in perfect hcalth and fafety." The feverity of John having occafioned a freth revolt, James again fent a fquadron to his affithance, which appeared before Stochholm, and obliged the Lubeckers to conclude a ncw treaty.

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James, having thus honourably difcharged his en- Scotland. gagements with his uncle the king of Denmark, turned his attention towards the Flemings and Hollanders, who had infulted his flag, on accourit of the affitance he had ciac Fies afforded the duke of Gueldres, as well as from motives mys and of rapacioufnefs, which dittinguilhed thofe tradcis, who Hoilanders are faid not only to have plundered the Scots thips, but to have thrown their crews overboard to conceal their villany. James gave the command of a fquadron to Barton; who put to fea, and, without any ceremony, treated all the Dutch and Flemifh traders who fell into his hands as pirates, and fent their heads in hogiheads to James. Soon afier, Barton returned to Scotland, and brought with him a number of rich prizes, which rendered his reputation as a feaman famous all over Eu-rope.-James was then fo much refpected on the continent, that we know of no refentment fhown either by the court of Spain, whofe fubjects thofe Netherlanders were, or of any other power in Europe, for this vigorous proceeding.
The peace with England continued all the remaining Caufe of part of the reign of Henry VII. nor did his fon Hen- quarrel ry VIII, though he had not the fame reafon as his fa- with Engther to keep well with the Scots, for fome time fherw land. any difpofition to break with them. A breach, however, at length took place, and was never afterwards thoroughly made up.

About 30 years before, one John Barton (a relation, probably, to the famous Barton) commanded a trading veffel, which was taken by two Portuguefe fea-captains in the port of Sluys; and the captain, with feveral Scotchmen, were killed in endeavouring to defend their property. The action was efteemed cowardly as well as piratical, becaufe it was done under the protection of a large Portuguefe fquadron. The fhip, and the remaining part of the crew, with the cargo, were carried to Portugal, whence no redrefs could be obtained; and James III. granted letters of marque to John and Robert Bartons, heirs to the Barton who had been murdercd. Upon the acceffion of James IV. to the crown of Scotland, the letters of marque were recalled, and a friendly correfpondence was entered into between James and his Portuguefe majefty. No redrefs, however, was to be had from the latter; and Robert Barton being made prifoner, and his thip a prize, he was detained in Zealand, till James procured his deliverance, by ap. plying in lis farour to the emperor Maximilian. Sir Andrew Barton took part in the quarrel; and having obtaincd a like letter of marque, he made dreadful depredations on the Portnguefe trade, and, according to Englifh authors, he plundered many Englifh flips, on pretence of their carrying Portuguefe property, ard made the navigation of the narrow feas dangerous to Englifhmen. The court of London received daily complaints of Barton's depredations ; but Henry being at this time very averfe to quarrel with James, thefe complaints were heard with great coldnefs at his councilboard. The earl of Surrey had then two fons, gallant noblemen; and he declated to Henry's face, that while he had an eltate that could furnifh out a fhip, or a fon who was capable of commanding one, the narrow feas fhould not be infefled. Henry could not difcourage this generous offer; and letters of marque were accordingly granted to the two young noblemen, Sir 1 homas and Sir Edwald Howard. The prizes that Barton had taken.

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Scotland. taken had rendered his thips immenfely rich, confequently they were heavy laden, and unfit for fighting; while we may eafily fuppofe, that the hins of the Howards were clean, and of a fuperior force in every refoect to thofe of Barton. After encountering a great deal of foul weather, Sir Thomas Howard came up with the Lyon, which was commanded by Sir Andrew Barton in perfon; and Sir Edward fell in with the Unicorn, Barton's other fhip. The event was fuch as might be expected from the inequality of the match. Sir Andrew Barton was killed, while he was animating, with his whiftle, his men to hold out to the laft; and both the Scotch fhips being taken, were carried in triumpl to London, with their crews prifoners.

James could never forgive Henry for the lofs of his brave officer. He fent to demand fatisfaction; but all the anfwer he received was, that Barton and his crews were lawlefs pirates, and that what had been done againft them ought never to have been refented amongit fovereign princes. James afferted, that Barton was no pirate, becaufe he bore his commiftion; and that he ought to have been convicted of piratical acts before he was treated as being guilty of them. Henry intimated to James, that he was willing to accommodate the affair by way of negociation; but James thought himfelf affronted by the propofal.

Various negociations took place concerning this and - other affairs till the year 1513; when James, though he had for fome time before been fully refolved on a war with England, thought it highly neceflary that it fhould have the fanction of his parliament, which he affembled for that purpofe. The young nobility were not only infpired with the fentiments of James, but had been won over by the French; and the majority of them, as well as of the clergy (which was lomewhat extraordinary, is James was, in effect, to fight againft the pope and his allies), were keen for a war with England. The old counfellors, on the other hand, who faw thie flourifhing ftate of Scotland, arifing from a long peace and commerce protected by a fleet, dreaded the ruinous confequences of the war. The queen naturally headed this party; and fhe was joined by the earl of Angus and the wifelt part of the nobility. Their arguments made so impreffion upon James, who had received a prefent from Louis of four thips laden with wine and flour, and tiso thips of war completely equipped, one of them carrying 34 pieces of brafs ordnance. He promifed to the French queen, upon his honour, that he would take the field againtt the Englifh; and the had fent him a frefh letter, gently reproaching him for want of gallantry, and for not being fo good as his word. In floort, the reafonings of the wifeft and belt part of the nobility were overruled, and the expedition againit
of Cheiter, Lancafler, Northumberland, Weftmoreland, Cumberland, and the bifhopric of Durham. The earl of Hume had by this time laid great part of Northumberland walle; and his men were returning home laden with booty. The earl of Surrey, refolving to intercept them, ordered Sir Williain Bulmer to form an ambufh with $\mathbf{1 0 0 0}$ archers, at a place called Broomhoufe, which was extremely convenient for that purpofe, as the Scots were obliged to pafs that way. As the latter expected nothing of that kind, Bulmer executed his orders with great fuccefs. The archers affaulted the Scots all at once, and made fo good ufe of their arrows, that their main body was put to flight, 500 were killed, and 400 taken, with the lord Hume's ftandard, which le left on the field of battle ; the greateft part of the plunder being recovered at the fame time. The commonalty of Scotland termed this expedition of the lord Hume's the Ill road.

James was more exafperated than ever by this de- The queen feat, and continued his preparations for invading Eng. endeavours land with additional vigour. His queen did all that to diffuade became a wife and prudent wife to divert him from his his dfirm fatal purpofe. She endeavoured to work on his fuperftition, by recounting to him her ominous dreams and boding apprehenfions. James treating thele as mere illufions and fictions of the brain, the had recourfe to other arts. While James was waiting at Linlithgow for the arrival of his army from the north and the Highlands, he affifted one afternoon at the vefpers in the church of St Michael. Being placed in one of the canon's feats, a venerable comely man, of about 52 A phantom years of age, entered, dreffed in a long garment of an appearsto azure colour, and girded round with a towel or roll him. of linen, his forchead bald, and his yellow locks hanging down his ftroulders; in thort, he was dreffed and formed to appear like St Andrew, the apoitle of Scotland, as he is reprefented in painting and fculpture. The church being crowded, this perfonage, with fome difficulty, made his way to the king's feat; and leaning over it, he fpoke to the follarwing purpofe: "Sir (faid he), I am fent hither to intreat you for this time to delay your expedition, and to proceed no farther in your intended journey : for if you do, you fhall not profper in your enterprifc, nor any of your followers. I am further charged to warn you, if ye be fo refractory as to go forward, not to ufe the acquaintance, company, or counlel of women, as ye tender your honour, life, and eitate." After delivering thefe words, he retired through the crowd, and was no more feen, though, when the fervice was ended, James eameflly inquired atter him.

That this fcene was acted, feems to be paft difpute; for Sir Lavid Lindfay, who was then a young man, and prefent in the charch, reported it both to Buchanan and Lindfay the hiftorian. It is, however, equally certain, that the whole was a contrivance of the queen, to whofe other afflictions the ftings of jealouly were now added. In one of the Scotch iuroads into Eng- J 709 land, one Heron, the proprietor of the calle of Ford, lin'ed by had been taken priloner, and fent to Scotland; where his miltur. he was detained on a charge of murder, of which lie feems to have been innocent. The Englifin hitiorians mention this as having paffed after James entered Ensland: but from the litter part of the fuppof d plantoin's fpeech, it is probable that it happened before;

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S.orland. and that Yeron's wife and beautiful daughter had been for fome tine foliciting James for his deliverance. Be that as it may, it is too probable that James was fmitten with the charms of the daughter ; and that her mother, who was a moft artful woman, knew how to arail herfelf of the conqueft. Pretending that thie had intereft enough to procure the releafe of the lord Johinfon and Alcxander Home, who were prifoners in England, fhe was permitted by James to keep a conflant correfpondence with the earl of Surrey, to whom the is faid to have betraved all James's fecrets and meafures. The rendezvous of James's army was at the Burrow moor, to which James repaired; and having given orders for the march of his artillery, lee lodged at the abbey of Holyroodhoufe. While he was there, another attempt was made to divert him from his parpofe of invading England: but James, deaf to all the folicitations and inventions of his queen, muftered his army; and on the 22d of Auguf he paffed the Tweed, encamping that night near the banks of the Twiffel. On his arrival at Twiffelhangh on the $14^{\text {th }}$, he called an affembly of his lords together, and made a declaration, that the heirs of all fuch as flould die in the army, or be killed by the enemy during his flay in England, fhould have their wards, relief, and marriages of the king; who, upon that account, difpenfed with their age. This is faid to have been the crifis of that prince's fate. Abandoned to his paftion for his Englifh miftrefs, fhe prevailed with him, at her mother's infligation, to trifle away his time for fome days; during which interval, the junction of the Englifh army was formed. The earl of Surrey, the Englifh general, was then at Pomfret : but ordered the landholders of the neiobbouring counties to certify to him in writing what number of men each could furnifh, charging them to be ready at an bour's warning; and he laid his plan fo as not to bring his army into the feld till James had advanced fo far into England as to rencler it very difficult for him to retire without a general battle. This precauticn alfiffed the lady Ford (as the is called) in perfunding James that there was no danger in the delay, becaufe the Englifh had not the face of an army in tie field.

In the mean tinie, the earl of Surrey ordered the governers of Berwick and Norham, the two frongeft places on the frontiers of England, to prepare for a vigorous refiffance in cafe they were attacked; and direited them to cerlify how long they could hold out, in bopes, that if they made a refolute defence, James would march on, and leave them in his rear. The governor of Norham's anfwer was, that his caftle was fo well provided, as to leave him no doubt, in cafe of a fiege, to he able to defend it till King Henry fhould return from abread, and relieve it in perfon. James, however, befieged it on the 25 th of Auguf, and battere ! it fo furioufly, that he took it by capitulation the fisth day after. James then proceeded to the cafte of Etal belenging to the family of Manners (now duke of Rutland) ; which he took and demolifled likewife, as te alfo did Wark, and arrived before the caft'. of Ford. Thie Srotch army is eenerally allowed to have confifted of at lein 50000 men when it paffed the Tweed. At this time it was cncamped on the heights of Cheriot, in the hart of a country maturally betete, and now defolate dirough the precactions taken ty the Engl:ih ge-
neral. Being obliged to extend their quarters for the S-othan: benefit of fubfiffence, the mercenary part of them had acquired a confiderable plunder, with which, as ufual, they retired to their own country, as many more did for want of fubfiftence. The earl of Surrey knew their fituation, and ordered the rendezvous of his army, firt at Newcaftle, and then near Norham, having certain intelligence of the valt defertions daily happening in the Scotch army, which had reduced it greatly. The wetnefs of the feafon rendered his march, efpecially that of the artillery, extremely difficult; but being joined by feveral perfons of diftinetion, he marched on the 3 d of September to Aluwic, where he was reinforced by 5000 hardy veteran troops, fent from the Englifh army on the continent, under the command of his fon the lordadmiral of England; fo that, as the Englifh authors admit, his army confifted of 26,000 men, all completely armed and provided for the field. James having, in the manifefto which he difierfed on his entering England, given the death of Barton as one of the caufes of his invafion, the lord-admiral had prevailed with Henry to fend him upon this fervice; and he informed James by a letter, that he intended to jullify the death of that pirate in the front of the Engliih army.

By this time the army of James was, by defertim James difand other caufes, reduced to lefs than half its numbers ; guts fevebut the chief misfortune atlending it was his own con-nobility. duct. His indolence and inactivity, ioined to the fcandalous example of his amours, at fuch a feafon, had difgufted feveral of his greateft men and beif friends; and fome of them more than fufpected a correfpondence between the Englifh lady and the earl of Surrey. James was deaf to all their remonftrances; and the earl of Angus declared, that he was refolved to return home, as he forefaw that the ruin of the army was inevitable through the offtinacy of James. He accordingly winhdrew to Scolland, hut left behind him his two fons. The lord Hume and the earl of Huntly were likewife difcontented. The former had brought his men into the field ; but according to fome Scotch hifooians, with a defign rather to betray than to ferve James; but Huntly, though he difliked his mafter's conduct, remained firmly attached to his perfon.

The defection or backwardnefs of thofe great men feemed to make no impreffion upon Jamcs. He had chofen a flrong camp in the neighbourhood of Ford, on the fide of a mountain called Flodden-hill; and he was feparated from the Englifh arn:y by the river Till. This advantageous fituation put the carl of Surrey un- Encarpps der great difficulties; for it rendered the Scotch army in an adinacceflible, as it was fortified by artillery, and was now vantageous well fupplied with provifions by the change of its fituation. The earl drew up a manifefto, with which he charged Ionge Croix heald, who was attended by a trumpet. It contained fome propofals for an exchange of priloners, which feems to have been calculated to give the lady Ford the more credit with James; but concluded with reproaches for his perfidious invafion of England, and a defiance to James to fight him in a general battle. The herald was farther charged with a verhal commiffion to acquaint James, that the carl of Surrey had iffued orders that no quarter floould be given to any of the Scotch army but the hing himfelf.

A council of war was cal.'.d on this occafion; in which the earl of Huntly and others made frong remonfrances

Scotiand. monftrances ngaint a general engagement. They flewed how fatal it mut be to Scolland, lhould it prove unfuccefsful; and 1 at the wiledt courfe James could follow was to return home, where, it he was pu.fued by the enemy, he could fight to greal advantage. The earl of iluntiy, however, added, that his opinion fhould be determined by that of the king and council; and that he was equally ready to thate in his majelty's danger as his ylory.

Huntly and the other noblemen were oppofed by the French ambaffador, who repretented a retreat as dif-

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Refulves to fiybr, con: rary to the op: mon $t$ all kis offeers. graceful to the nosili $y$ of Scutland and the arms of James; and uled many romantic arguments of the lame kind, which but too well fuited with the king's cifpolition. According to Drummond, the couscil were of opinion that the king thould immediately befiege Borwick; but the majority of them declared that it was beneath the dignity of James to fight the earl of Surrey at that nobleruan's requifition, and that James could lofe no honour by retuaning home. Patrick Lord Lindfay of B res, mentioned on a furmer occafion, and who was prelident of the cuuncil, exprefled himfelf fo firongly on that head, that James, in a pafion, is fuid by the hiftorian Lindiay to have fworn, that if ever he lived to return to Scotland, he would hang that nobleman at his vwn gate. He ordered Rouge Croix to be called in ; and after treating, tim with great politenefs, he fent a meffage to the earl of Surrey by one of his ows heralds (Illay), importing, that he would give the Englih battle on the Friday following; and that had be received fuch a meffage from the earl even in his own caftle of Edinburgh, he would have left that, and all oiher bufinefs, to fight him. With this meffage, a frall manifeitu, in vindication of James's conduct, was lent by the fame herald.

The earl of Surry, who was then fo intirm that he was carried about in a fedan or chariot, had forefeen that James would return an anliver by one of his own heralds; but, unwilling that he dhould obtain any knowledge of the fituation of the Englifh camp, he ordered proper perfons to receive him at two miles diffance, where foon after he attended himfelf in perfon. Jllay executed his commiflion, without paying much refpect to the perfon of the Englifh general; who difmitiled $h: 3$, after beftowing great compliments on the honour and courage of James. The earl then ordered his arroy to march in the line of battle towards Wollerhaugh. There he was joined by Rouge Croix, his herald, who gave him an account of the ftrong fituation of the Scortilh camp; but the advanced pofts of the Englim army were then within three miles of their enemies, and the earl of Surrey found his difficulties daily increafing. The roads were bioken up, the fwelling of the rivers cut him off from the neceffary communications for fupplying his army, and nothing but a battle could fave bim either from being ditbar ded or deftroyed.

James feems to have fo far regarded he advice of his wifeft counfellors, as not to ahandon his Itrong fituation. They endenvoured to perfuade him, that it was a fuf. ficient guard to his honour, if he did not decline the battle on the day appointed; and that his engagement did not bind hirn ta fight upon difadvantageous ground. The Scots, at the fame time, knere of their enemy's difreffes; and, as Drummond elegantly exprefles it, they remonftrated to their king, that he lucked nothing but patience to be victorious. The Scots thas Iving on the defenfive, the carl of Surrey again fent Rouge Coix to
inform Jamies that he was ready to give him battle. James was fenfibly nettled at this tacit imputation on his honour, ald perlaps was inwardly vexed at having foliowed the wite advice of bis noblemeis. It appears, from the belt authoritics, that he neglected the neceflary precautions for guarding the paffages of the Hill, which the linglifh croffd, partly at a place where it was fondable, and partly at a bridge. We are told, not without great appearance of probability, that while the Englth were palling the bridge, Borthwick, wafter of the Scotch artillery, fcll on his knees, and begged permiffion from James to point his cannon againft the bridge; but that James an:fwered him in a paflion, that it mutt be at the petil of his (Borthwick's) head, and that he was refolved to fee all his enemies that day on the plain before him in a budy. The earl of Surrey, atier palfing the Till, twok poffefion of Braston, which liy to the right of the Scotch camp; and by that fituation he cut of the communication of his enemies with the Tweed, and commanded the Till beluw Eton-catle. The Scotch generals faw themfelves now in danger of being reduced to the lame liaits in which their enemies had been involved two days before, and their country open to an invafion of the Englith army. James had fecret intelligence that this was far from being the intention of the Englioh general; and imagining that the latter's intention was to take poffelfion of a lirong: camp upon a hill between him and the Iweed, which would give the Englilh a farther command of the country, he refolved to be befurc-hand with the earl, and gave orders for making large fires of green woot, that the fmoke might cover his march along the height, to take advantage of that eminence. But while this thratagem concealed his march from the Engliih, their movements wete concealed from him: for when he came to the brow of the height over which he had marched, he found the enemy drawn up in order of battle on the plain, but fo clofe to the height where he was, that his artillery, on which his great dependence was, mult overthoot them.

A battle was now not only unavoidable, but the only means of faving the Scotch army, which was probably far from being a dilagreeable circumflance to lames. His perfon was fo dear to his troops, that many of them dreffed themfelves as nearly as they could in the fame coats of armour and with the fame dillinctions that James wore that day. Ifis generals had earnettly defired him to retire to a place of fafety, where his perfon would be fecure in all events: but he obltinately refuled to follow their advice; and on the 9 th of September, early in the morning, difpolitions were ordered for the line of battle. The command of the van was allotted to the earl of Huntly ; the earls of Lenox and Argyle commanded the Highlanders under James, who, fome fay, ferved only as a voluntecr; and the earls of Crawford and Montrole led the body of refcrye. The earl of Surrey gave the command of his van to his fon, the lond admiral ; his right wing was commanded by his other fon, Sir Edward Howard; and his left by Sir Mio maduke Conllable. The rear was commanded by the carl himfelf, Lord Dacres, and Sir Edward Stanley. Uucler thofe leaders ferved the flower of all the nobility and gentry then in England. Other writers give different accounts of the difpulition of the Englith army, but they miy be reconciled by the different forms into which the battle was thrown before it was deciled. Tlie lord $-$

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## S C O $\quad\left[\begin{array}{ll}664\end{array}\right] \quad \mathrm{S}$ C O

Scoliand. Hume is mentioned as ferving under the earls of Crawford and Montrofe, and Hepburn earl of Bothwel was in the rear.

The firf motion of the Englinh army was by the lord admiral, who fuddenly wheeled to the right, and feized a pals at Milford, where he planted his artillery fo as to command the moif floping part of the afcent on which the Scots were drawn up; and it did great execution. The Scots had not forefeen this manceuvre; and it threw them into fuch diforder, that the earl of Huntly found it neceffary to attack the lord-admiral; which he did with fo much fury, that he drove him from his poft; and the confequence muft have been fatal to the Englith, had not his precipitate retreat been covered by fome fquadrons of horfe under the lord Dicres, which gave the lord-admiral an opportunity of rallying and new-forming his men. The earl of Surrey now found it neceffary to advance to the front, fo that the Englifh army formed one continued line, which galled the Scots with perpetual difcharges of their artillery and botss. The Highlanders, as ufual, impatient to come to a clofe fight, and to fhare in the honour of the day, which they now thought their own, rufhed down the declivity with their broad fwords, but without order or difcipline, and before the reft of the army, particularly the divifion under Lord Hume, advanced to fupport them. Their impetuofity, however, made a confiderable impreffion on the main battle of the Englifh; and the king bringing up the earl of Bothwel's referve, the battle became general and doubtful : but by this time the lord-admiral, having again formed his men, came to the affiftance of his father, and charged the divifion under the earls of Crawford and Montrofe, who were marching up to fupport the Highlanders, among whom the king and his attendants were now fighting on foot: while Stanley, making a circuit round the hill, attacked the Highlanders in the rear. Crawford and Montrole, not being feconded, according to the Scottifh hiftorians, by the Humes, were routed; and thus all that part of the Scotch army which was engaged under their king, was completely furrounded by the divifion of the Englifh under Surrey, Stanley, and the lord-admiral. In this terrible frtuation, James acted with a coolnefs not common to his temper. He drew up his men in a circular form, and their valour more than once opened the ranks of the Englifh, or obliged them to tland aloof, and again have recourfe to their bows and artillery. The chief of the Scotch nobility made frefh attempts to prevail with James to make his efcape while it was practicable; but he obefinately continued the fight; and thereby became acceffory to
his own ruin, and that of his troops, whom the Englifh would gladly have fuffered to retreat. He faw the earls of Montrofe, Crawford, Argyle, and Lenox, fall by his fide, with the braveft of his men lying dead on the fpot; and darknefs now coming on, he himiclf was killed by an unknown hand. The Englifi were ignorant of the victory they had gaincd; and had aitually retreated from the field of battle, with a defign of renewing it next morning.

This difafter was evidently owing to the romantic difpofition of the king himfelf, and to the want of difcipline among many of his foldiers; though fome writers have afcribed it to the treachery of Lord Hume. Many of James's domeflics knesv and mourned over his
body; and it appeared that he had received two mortal wounds, one through the trunk with an arrow, and the other in the head with a ball. His coat of armour was prefented to Queen Catharine, who informed her hufband, then in France, of the victory over the Scots. The lofs on both fides, in this engagement, is far from being afcertained ; though Polydore Virgil, who lived at the time, mentions the lofs of the Englifh at 5000, and that of the Scots at 10,000 men.

Thus fell James IV. after having exercifed the regal Review of power for 25 years, and lived about 40 . In reviewing the reign of the principal tranfactions of his reign, our chief atten- James IV. tion is directed to the acts of the legiflature. Thefe, as in the preceding reigns, appear to have been very mindful of the freedom of the halie kirke. During the year 1489 , was pafled an act, by which it was made criminal for any one to intermeddle with the profits or duties of the church; and this act, which did not long protect, either the church or the clergy from the rapacity of the times, was fpeedily followed by legiflative declarations for univerfal concord among the king's lieges. The parliament alfo endeavoured to protect the king's privileges, confidering him, fill, however, as a minor; but he attempted in vain to reftore to the royal prerogative the neceflary vigour of ancient times. Additional exemptions were given to thofe members whofe duty required their conftant attendance in parliament ; but by thefe exemptions the authority of the parliament was neither ftrengthened nor enlarged. The general principles of former ages, that the king, by his precept, might fummon any of his fubjects to give their prefence and advice in parliament, was again recognized; and confidering how much of the public revenue was paid by the boroughs, it was a falutary provifion that their deputies fhould be always fummoned as reprefentatives of one of the three eftatcs, when it was intended to require contributions from the people.

There feems to have been, during this reign, confiderable zeal for promoting domeftic economy, though the beft means wese not always employed for that purpofe. Agriculture was encouraged, weights and meafures were fettled, crafifmen were regulated, coins were ftruck, the value of money diminifhed, and fhipping were required to come firf to the free boroughs. In addition to all thefe regulations, it was enacted under a penalty, that barons and freeholders fhould fend their eldeft fons to the fchools, to learn Latin and law; but there feems to have been no provifion made for inftruct- * See Cbald ing them in the more important information of morals mers's Caand manners, in which the nation was notorioufly defi- p. $\mathrm{S}_{3}$. cient *

After the death of King James IV, the adminiftra- The queen tion devolved on the queen-dowager; but the being dowager afpregnant with a pofthumous child, and unable to bear fumes the the weight of public bufinefs, accepted Beaton archbi-ment. fhop of Glafgow and chancellor of Scotland, with the earls of Huntly, Angus, and Arran, to affit her in the affairs of government. Soon after her hubband's death Writes 4 fthe had written an affecting letter to her brother the the king ci king of England, informing him of her pregnancy, fet- England. ting forth the deplorable ifate of the kingdom, with her own condition, and imploring his friendfip and protection for herlelf and her infant fon. This letter feems never to have been communicated by Henry to his council ; but he aniwered it, and informed his fifter, that if

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the Scots would have peace, they flould have peace, and war if they chofe it. "Hc added (according to Drummond), that her huthand had fallen by his own indiecreet rathneis, and foolilh kindnefs to Frauce; that he regretted his death as his ally, and flould be willing to prohibit all hollility again? the country of Scotiand during the minority of her fon. For a remedy of prefent evils, one year's truce and a doy longer was yielded unto; in which time he had leifire to profecute his defigns ag.inint France, without fe:r of being dillurbed or diverted by the incurfions and intoads of the Soots upon his borders."

Thus far Drummond: bat though, Henry might grant this time to his fiuter's intreaty, yet it certainly did not become a national meafure; for it appears by a letter dated two years after, from the Scots council to the king of France, publithed by Rymer, that the Scots never had defired a truce. So far from it, the French influence, joined to a defire of revenge, remained fo itrong in the kingdom, that after the meeting of the par:ionment, fome of the members were fo vivie at as to propole a renewal of the war. This motion was indeed over-ruled by the more moderate part of the afienly: but they could not be brought to make any adrances towards Henry for a peace; and cvery day now tcemed with public calamity, which feems to have $g$ thered Atrength while the queen was in clildbed. The archbithopric of St Andrew's being vacant, it was offered by univerfal confent to Elp.uiston bifhop of Aberdeen ; but oeing now old and i...-n, he duclined it. Three competiors for that high dionity then appeared. The firit was Gawin Dus las, then abbot of Aberbrothwick, to which he wht prect ted by the queen on her recovery (having bee.a broustt to bed of a fon) the very d $y$ before her marringe with his ne hew the earl of Angus: and upon the de.th of bha, tlatton in Novenber fothing, fhe prefented him! !ikile to the archoil hanric of S: Andrew's. The fecond cempetitor was John Hepburn, nrior of St Andrew's ; a hold, avaricious, rellefs, but threwd and ferniole prieit. By his office he had received the rents of the fee dating its vacancy; and having prevailed with the canous, on pretence of ancient frivileges, to elcet him ar hioifhop, withost regard to the nomination either of the queen or pope, he drove Doug'tas's fervants from the caille of St Andrev's, of which they had taken poffeflion. The third and moft powruful competitor was Forman bihop of Moray in Scotland, and archbihap of Bourges in Fance, a dignity to which he had been raited for his public ervices. He had in his intereft not only the duke of Albany (fon to the tritor duke) firlt prince of the blood, but alfo the court of Rome itficlt; and having recrived the pope's bull and nonination to the dignis, t.e was conlidered by the Scotch clergy in general, athd the the principal tenants and dependemis on the fee, as $t^{\prime \prime}$ e legal archbithop.

The prefere glas from purfing his preterfions; but Hepburn, Leing fupported by the clen of his oxn name and by the Humes, made fis furmidable an of pofition to his rivels, thlat non c -A ! be foane: fur ie atly daring, to putlih
 itter, however, having intimated to thic cal of litac, that hiscreli at $t$ ! a coult of Rome could caily 1 , 3
 Yos-XVII). Pait II.
ther, the eail pl. himfelf at the head of lis followers, $S$.ind and, notwithlanding all the oppotition given by the Hepburns, he proclaimed the pe 'e's bull at the cros of E.di: burgit. This daring action limly proved that the earl of Elume had more power than the queen-regent herlelf; but Hepburn's refolution and the greatnols of his friends, obliged Fornan to agree to a compromife. Hepburn was advanced to the fee of Moray, without accounting for the revenues of the archbilhopric, which he had received during its vacancy ; and he gave For man a prefent of three thoufand crowns, to be divided among his friends and foliowers.

In April ${ }^{151}$, the polthusious fon, of whom the Ar. 151 . queen had been delivered in Stirling cattle, was by the bithop of Caithnefs baptized by the name of Alevander. The q icenOn the 6th of Augult this year the was married to the earl manrid to of Angus; a circumplance than which no hing could be mate of of accounted more impolitic. She had neither coniulted 1. \%us. her brother nor the Itates of Scotland in the match; and by her having accepted of a huiband, the in fact refigned all claim to the regency under the late king's wi 1. The Douglafes did not difpute her having di$v$ Iteat herfelf of the regency; but they alfi.med, that the parliament might lawfully reinftate her in it; and that the peace of the king dom required it, as it was the only meafure the could prer tve che happy tranga :lli.y which then fubi ted betwe on Szotland and Englaru. The ensl of Hume pat himfelf at the head of the oncofition to this propufil. He knew that he liad encmies, and he dreaded that the farther arsranuizement of Angus might we.ken his inicrelt on the borders. He was joined by a number of the you 1 g nobility, who, thoush divided among themfelves, united agn infi Alagus. In thort, the general opinion was, that the Dougfufes were already too great ; and that, Should the frien le reimbted in the regency, they mult be abfolute with in the kingdom, and engrofs all places of porver and prorit. It was added by the earl of Fiume, that he had, out of reipect to the late king's memory, fubmitted to the qiecn's gove:nment; ant th at, nori wi wh the ha do de a voluntary abdication of it by her maartiage, it ought not to be renewed.

Aiter fome deliberations, the chike of Albany was Ti. 4.7. chofen regent. He was a man pofiefld of all the qua-ot Acoll litics requifie for a good governor ; nor did be dilap-ulsea:point the expectations of the public. On his arrival at 34 Glafgow, he took upon him the tilles of earl of MTarch, Marr, Garioch, lord of Antandale, and of the ille of Man, regent and protector of the kingdom of Scotland. On his arrival at Edinburgh, he was received in form by the three eftates of the kingdom, and the quen hind met him at fome diftance from the town. "The parliament then reliumed its feffion, and the farce efta:c took an oath of ohedence, till the kiog, then an intans of four jears old, thould arrive at the years of maturity.

The frit point at which the regent aimed, was the concliatine the difice ences amongit the varions conte ding tami ies in the kingdom; at the fame tinnc, that hic i ppprelid fome daring a blers, one of whom is faid to lave hal not fescer than $8=0$ attendants in his in : me puofuitur. So great was his love of gond orderema decuacy, that he pawill-1 the lord Drunmmend wit the lufs of his chate for lensing firu $k$ Levon king at arms, whote perfon, as tirs lint herald in Scolland, ; P
ough"
 ean : : chiof medor, 1 : a a greater punill ment was net infli.ie. Wic furititure was afterwards, however, remitted; ; but nu wione Drmmord had, uf.7 his knees, ackiorvelges his cfface, and humbled hinfelf bcfore Ly,n.

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Itase,

She regent lad rot been long in office before he
 whom he crnithed for information concerning the flate ai Scothand. Ihep: -rn acquainied him with all the feuad and a.imontitics wifich raged among the great families of Scotland, their ferccicu charatter, and barbarous behaviuur to their enemies. He reprefented the civil power as too weak to cuib there potent chieftains; and gave it as his opinion that the regents adminittration ought to be fupported by foreign arms, meaning thole of France.

Hepburn is faid alfo to have grined an afcendency ever the r gent by means of large fums of money laid out eniong his dcin fics, by an inlinuating and plaufible sddecfo, and by well-direted flatteries; and he employed this afceniuticy to deffroy tho.c. who were obnexious to himfelf. The earl of Hume, as teing the firt fub-j-et in rank and authority, became obnoxious to the regent through the infinuations of Hcpburn; and as that nobleman had frequent occafion to be at court by virtue of his wivie of chamberlain, be foon perceived that aeither he nor his friends were welcome guefts there. Alarmed fur his own fafety, he refoived to form a party with the queen-mother and ker new hurband againt the regent. This was by no means a difficult taft: for the queen naturally imagined that her new hufband ought to have had fome thare in the government ; and the earl of Angus readily concurred in the fcheme. In the mean time, the regent was making a progrefs through Scutland, while bloody feuds were raging among the nobles: but before any remedy could be applied to thefe diforders, he was informed of the fchemes laid by the queenmother and her party; and that fhe had refolved to fly into England with her two inflants. On this he inflantly returned to Edinburgh; and as no time was to be loft, fet out that very night, and fuzprifed the caffle of Stirling, where he found the queea-mother and her two infants.

The regent, after this bold flep, took care to fhow that the care of the royal infants was his chief fludy. As he himfelf was nearly allied to the crown, in order to remove all fufpicions and calumnies on that account, he committed the care of the king and his brother to three noblemen of the moft unexceptionable characters in the kingdom, but of whom we now know the name only of one, viz. the earl of Lenox. They were appointed to attend the princes by turns; to whom alfo a guard, confinting partly of French and partly of Scots, was affigned; and the queen-mother was left at liberty to refide where floc pleafed.

The earl of Hume, finding his fchemes thus abortive, retired to his own etate; whence he was foon after driven, and olliged to fly into England, by the earls of Arran and Lenox. The quecn-mother retired to a monaftery: at Colditream; and mettengers were difpatched to the court of Encland, to know how Henry would have his fifter difpofed of. He ordered the lord Dacres, his warden of the marckes, to attend her to

Harbotilecafie in Northumberland; and Lere fhe was 5:orland, delivered of her daughter the Lady Mary Douglas, mother to Heniy Lord Darmey, father to James VI. The regent difpatched amhafidors to Henry, in order to vindicate his own condect. He likewife ient to affure the çuce that the had nothing to fear in Scotland; and to javite her to return thither, where fhe thould at all times be adnitted to fice her children. This offer, however, the declined ; and fet out for London, ${ }^{416}$ where fhe was affectionately received ardententained by goes to her brother. But in the mean time many diforders England. were commited thoughout the kingdom by the party of the quecn-m wher; though, by the interpofition of Archtirtop Forman, they were at prefent terminated without bloodihed, and fome of the principal offenders were perfuaded to return to their duty. Among thefe was the earl of Angus himfelf, the queen's hufband; Her 417 which when King Henry heard, he exclaimed, "That band fubthe earl, by deferting his wife, had acted lite a Scot." mats to the Lord Hume refufed to furrender him!elf, or to accept tegent. of the regent's terms; and was of confequence declared a traitor, and his eftate confifcated. All this time he had been irfielting the borders at the head of a lawlefs banditti; and now he began to commit fuch deraftations, that the regent found it neceflary to march againf him at the head of 1000 dificiplined troops. Hume being obliged to lay down his arms, was fent prifoner to Edinburgh caftie; whare the regent very unaccountably committed him to the charge of his brother-in-law the earl of Arran. Hume enfly found means to gain over this near relation to his own party; and both of thom, in the month of Otober 1515 , An. $\mathrm{r}_{515}$ efraped to the borders, where they foon renewed holfi-Retellion lities. Both the earls were now proclaimed traitors, and conbut Hume was allowed fifteen days to furrender him- motions is felf. This fhort interval the regent employed in quel- different ling the rebellion, for which purpole the parliament had allowed hini 15,000 men. He befieged the cafle of Hamilton, the earl of Arran's chief feat, which was in no co:adition fur defence: but he was prevailed on by Arran's mother, daughter to James II. and aunt to the regent himfelf, to forbear further hoolilities, and even to pardon her fon, provided he fheuld return to his eluty. Arran accordingly fubmitted; but the public tranquillity was not thus rellored. An affociation, 2t the head of which was the earl of Moray, the king's natural brother, had been formed againft the earl of Huntly. That nobleman was too well attended to fear any danger by day; but his enemies found means to introduce fome armed troops in the nighttime into Edinburgh. On this a fierce fikirmifh enfued, in which fome were killed on both fides; but farther bloodhed was prevented by the regent, who confined all the lords in prifon till he had brought about a general reconciliation. One Hay, who had been very active in firring up the quarrels, was banifhed to France; and only the earl of Hume now continued in arms.

In 1516 died the young duke of Rothefay: an event An. $15{ }^{16}$. which brought the regent one degree nearer the crown, fo that he was declared heir in cafe of the demife of young James. Negociations were then entered into about prolonging the truce which at that time fublifted with England; but Henry inffiting on a removal of the regent from his place, they were for the prefent
dropped.

## S C O

Scotland. dropped. Finding, however, that he could neither prevail on the parliament as a budy to difinits the regent, nor form a party of any confequence againft him, he at laff confented to a prolungation of the truce for a year.

An. 1517.
$4^{19}$
The earl of
Hume put to death.

420
The regent goes to France, and the queea returns to Scotland.

In 1517 , the affairs of the regent requiting his prefence in France, he refolved, befure his departure, to remove the earl of Hume, who, as we have feen, alone continued to dillurb the public cranquillity. Under pretence of fettling forme differences which ilill remained with England, he called a convention of the nobility; and fent fipecial letters to the carl of Hunie and his brother to attend, on account of their great knowledge in Englifh affairs. Both of them imprudently obeyed the fummons, and were feized and executed as foon as they arrived at Edinburgh. Whatever occafion there might be for this feverily, it alienated the affections of the people to fuch a degree, that the regent could fcarcely get the place filled up which Lord Hume had poffefied. That of lord warden of the marches he at lan gave to his French favourise La Beaute, called by hifforians Sir Anthony D'Arcy. The poit of lord chamberlain was given to Lord Fleming. Soon after this, the regent levied an army, on pretence of reprefsing fome difturbances on the borders. Thefe being fpeedily quelled, he feized on his return the earl of Le. nox, and forced him to deliver up his cafte of Dumbarton ; not choofing to leave it, during his intended abfence in France, in the cufody of a nobleman of fufpected fidelity; and from fimilar motives, afterwards took him with him on his departure for the continerit. He then procured himfelf to be nominated ambalfador to France, in which character he left the kingdom; having committed the government to the archbifhops of St Aisdrew's and Glafgow, the earls of Arran, Angus, Huntly, and Argyle, with the warden D'Arcy, on whom was his chief dependence.

On the departure of the regent, the queen-mother left the Englifh court; and arrived with a noble retinue at Berwick, on purpofe to vifit her fon. Here fhe was received by her hulband; for whom the had contracted an invincible averfion; either on account of his infidelities to her bed, or becaufe he had deferted her in the manner already related. She fuppreffed her refentment, however, for the prefent, and accompanied him to Edinburgh. Here, in confequence of the propofals made by the regent, fhe demanded accefs to her fon; but this was refufed by D'Arcy. Lord Erfkine, however, who was one of thofe to whom the care of the young king was committed, conveyed him to the caftle of Craignillar (where D'Arcy had no jurifdiction), on pretence that the plague was in Edinburgh; and there the queen was admitted; but this gave fuch offence to D'Arcy, that Lord Erksine was obliged to carry back the king to the caftle of Edinburgh, where all further accefs was denied to his mother. In flurt, the behaviour of this favourite was on all occafions fo haughty and violent, that he rendered himfelf univerfally odious ; and was at laft murdered, with all his attendants, in his way to Dunfe, where he propofed to hold a court of juftice.-His death was little regretted; yet his murderers were profecuted with the utmofl feverity, and feveral perfons of diftinction declared rebels on that account.

Meanwbile, the regent was treated with high mark.
of dillination in France. The hive wowed an the Seotisnd. greatert refrect, pronificd to allit in $\mathrm{ct}^{\prime \prime}$ wihhing his authority in Scutland, and folewn ly contirmed the ancient league between the two kingd mas. Soon after, the earl of Lenox arrived from France, with aflurances of protertion and affilanze from the ki ig, who was highiy plested with the zeal of the governors in putinhing D'Arcy's murkerers; and 500 foldiers arrived with him, to reinforce the gartion, epecially that of Dunbar.

All this time the queen mother cortined at Edin-The queen burgh, emploged hefelf in ...temits to procure a di-attempts to vorce from her hußaad, under pretence of his having, wree her been previoully contrated to another. The affirs of andand. 1510 . the kingdona again began to fall ixto confufion, and may murders and commotions happened in different pas: - of the country. The earl of $\Lambda$ rran had the chief cirection in the thate; but the earl of Anguc, no ithnanding the difference with his wife, had ftill great interen, and waited every opportunity to oppofe him. Thit emulation produced an encounter at E/inbur h; in which skir ${ }^{422}$ victory declarcd for Augus, ard $i^{2}$ of the : wet party tween were killed. This ikirmifh was iought on the $3^{\circ} \mathrm{h}$ of the io 10 April 1519, and has been known in siots hitory by the ern of the of name of Cleanfe the Cau, fiway.
On the 19th of November 1521, the regent returned waus. from France. He found the kingdum in great diforder, An. $152 r$ The earl of Angus domineered in the field, but his antagonift outvoted his party in the pariament. The queen-mother, who had fixed her affictinas on a tli:rd huiband, hated all parties almoft equally ; but joined the duke of Albany, in hopes of his depriving the other two of their power. This happened according to her ex pectation; and fhe was with the regent when he madz a kind of triumphal entry into Ediaburgh, atterded by a number of perfons of the firf rank.-The rar! of Angus was now fummoned to appear as a crisinal ; but his wife interceded for him, not out of any remains of affection, but becaufe he gave her no oppofition in the procefs of divorce which was depending between them. -In the mean time, Henry V1II. of England, per- ${ }^{-15} 1512$. ceiving that the Scots were entirely devoted to the Wrar with French interef, fent a letter full of accufations againß England. the regent, and threats againft the whole nation, if they did not renounce that alliancc. No regard being paid to thefe requifitions, Lord Dacres was ordered to proclaim upon the borders that the Scots muft tland to their peril if they did not accede to his meafures ty the firtt of March 1522 . This producing no effect, Henry feized the effects of all the Scots refiding in England, and banifhed them his dominions, after marking them, according to Bifhop Lefley, with a crofs, to diftinguifh them from his other fubjects. A war was the unavoidable confequence of theie proceedings; and, on the 30 th of April, the earl of Shrewfbury, Henry's itesward of the houfehold, and knight of the garter, was appointed commander in chief of the army that was to act againtt the Scots; and, in the mean time, Lord Dacres made an inroad as far as Kelfo, plundering and burning wherever he came.

Thie regent ordered his army to rendezvous at Rof. The Scots lin; but the Scots, remembering the difafter at Flod-refufe to in. den, fhuwed an extreme averfion to the war, and even vade Engdeclared to the regent, that though they would de-land. fend themfelves in cafe they were attacked, they would

## S C O $[$ ü68 ] S C O

Scth, ne engage in a French quarrel. The regent remonilrated, but without effect; and as the malconients continued obitinate, he was in danger of being left by himlelf, when the queen-mother interpofed, and prevailed with Lord Dacres to agree to a conference, the cvent of which was a renewal of the negociations for peace.

The regent perceiving, by the difgrace of this ex- pedition, that he had lolt his former popularity, determined to revenge himiclf; and therefore told thofe in whom he could confide, that he was about to return to France, whence he flould bring fuch a force by fea and land, as fhould render it unneceffary for him again to afk leave of the Scots to invade England. Accordingly he embarked for France on the 25 th of OAtober, but publicly gave out that he would return the enfuing Auguft.

On the regent's arrival in France, he made a demand of 10,500 foot and 5000 horfe for carrying on the war againft England; but the fituation of Francis did not then allow him to fpare fo many at once, though he was daily fending over flips with men, anmunition, and money, for the French garrifons in Scotland. At laft it ras publicly known in England that the regent was about to relurn with a ltrong fleet, and 4000 of the bef troops in France ; on which Henry determined, if poffible, to intercept him. Sir William Fitz Williams, with 36 large flups, was ordered to hlock up the French Yy3 dron in the harbour of Finhead; Sir Anthony Poy: : z cruized with another in the weflern feas, as Sir Chritopher Dow and Sir Henry Shireburn did in the northern with a third fyuadron. The duke of Albany, being unable to cope with Fiz-Wibliams, was obliged to fet out from another port with 12 fhips, having fome troops on board. They fell in with Fiz-Williams's fquadron; two of their fhips were funk, and the reft driven back to Dieppe. Titz-Williams then made a difeent at Treport, where he burnt 18 French fhips, and returnced to his thetion off Finhead. By this time the French had given the duke fuch a reinforcement as made him an overmatch for the Englifh admiral, had the men been equally good; but the regent had no de-
427 pendence on French firlors when put in competition

425 with the Englifh. Inftead of coming to an engagement, thercfore, as foon as Fitz-Williams appeared, be difembarked his foldier, as if he had intended to delay his cxpedition for that year ; but a flom foon arifing, which obliged the Englifh fleet to return to the Downs, the regent took that opportunity of reimbarking his men, and, failing by the wellern coafts, arrived fafe in Scotland.

All this time the earl of Surry had been carrying on the moft cruel and defructive war againf Scotland; infomuch that, according to Cardinal Wolfey, "there w- sleft weither houfe, fortre s , village, tree, cattle, corn, nor other fuccour for man," in the diftricts of Tweeddale and March. The regent's return did not immeciately prt a llon to thefe devallations; for the inteftine clivis ms in Scotland prevented him from taking the field. Ifis par-y was weakened by his long abfence, and the queen-mother had been very active in firenotlening the F. $1: 1: 1$ interelt. A parliament was calle'l in 1522 , in whith it was debated, whether peace or war with F. y d howld be $x$ folved on? and the ds:crainations of this p.rliament were cridently on the
worfe fide of the queition. Henry was at this time fo Scotiand. well difpofed to culivate a friendfhip with Scotland, that he offered to James his eldeft filter Mary in mar- $\mathrm{Henr}{ }^{429}$ of riage; but the Scots, animated by the appearance offers peace, their French ausiliaries, and corrupted by their gold, which is rejected all terms, and refolved on war. However, , jected. when the army was affembled, and had advanced to the borders, he found the fame difficulty he had formerly cxperienced ; for they peremptorily refufed to enter England. With great difficulty he prevailed with part of the army to pals the Tweed; but not meeting with fuccefs, he was obliged to return to Scotland, which at this time was divided into four factions. One of thefa was headed by the regent, another by the queen, a third by the earl of Arran, and a fourth by the earl of Angus, who had lived as an exile under Henry's protection. Had it been poffible for the earl of Angus and his wife to be reconciled to each other, it would have been much for the interefl of the kingdom; but all the art cven of Cardinal Wolley could not effect The ${ }^{430}$ this reconciliation. At laft, the duke of Albany, find-of Albany ing all parties united againft him, refigned his officerfigt: his of regent of Scotland. On the 14 th of March that "ffice of reyear, he went on board one of his own Chips for France, ${ }^{\text {tent. }}$ whence he never returned to Scotland. He did not indeed make a formal abdication of his government ; but he requefted the nobility, whom he convened for that purpofe, to enter into no alliance with England during his abfence, which he faid would continue no longer than the firf of September following; to make no alteration in the government; and to keep the king at Stirling.
The nobility, who were impatient for the abfence of the regent, readily promifed whatever he required, but without any intention of performing it: nor, indeed was it in their power to comply; for it had been previoufly determined that James himfelf flould now take the adminiffration into his own hands. According to Buchanan, the regent had no foouer returned to France than Scotland relapied into all the miferics of anarchy. The queen dowager had the management of public affairs, but her power was limited. The earl of Arran, apprehending danger from the Englifh, entered into the views of the French party. The queen-mother's dillike to her hufband continued as great as ever, which prevented an union arnong thofe who were in the Englifh intereft; and Wolley took that opportunity of reftoring the earl of Angus to all his importance in Scotland.The queen-mother, therefore, had no other means left to keep herfelf in power, than to bring James himfelf into adion. On the 29 th of July, therefore, he reinto adion. On the 29 th of July, therefore, he re- 4.31
moved from Stirling to the abbey of Holyroodhoufe; Jamee takes where he took on himfelf the exercife of government, en himfeli by convoking the nobility, and obliging them to fwear the governallegiance to his perfon a fecond time. The truce with England was now prolonged, and the qucen's party carried all before them. On the rery day in which the lalt truce was figned with England, the earl of Angus entered Scotland. He had been invited from his exile in France into England, where he was carcfied by Henry, who difres arded all his fifter's intreaties to fend him 432 back to France, and now refolved to fupport him in anem rec Scolland. Y'et, though his declared intention in fend-turn to ing the carl to Scotland was, that the latter raight ha-Scothrid lance the French party thace, the king enjoined him to

## S C O [ G60 ] S C O

Scotland. fue, in the mor humble manner, for a reconciliation
 ran, who now acted as prime minitter, as long as he fhould oppole the French party. On his return, however, he found himfelf excluded from all thare in the government, but foon found means to form a ftrong party in oppofition to Arran. In the mean time, ambaffadors were fent to the court of England, in order to bring about a lalling peace between the two nations. At the fame time a match was propoled between the young king of Scotland and Henry's daughter. 'This had originally been a cheme of Henry himfeif; but the emperor Charles V'. had refolved to outhid him, by offering James a princefs of his own family, with an immenfe treafure. The ambaffadors arrived at London on the $19^{\text {th }}$ of December, and found Henry very much difpofed both to the peace and to the match. Commifioners were appointed to treat refpecting it; but they were influcted to demand by way of preliminary, that the Scots nould abfolutely renounce their leagne with France, and that James fhould be fent for education to England till he fhould be of a proper age for marriage. The Scottifh commilioners declared, that they had no inftructions refpecting thefe points: but one of them, the earl of Caffilis, offered to return to Scotland, and bring a definitive anfwer from the three flates; atd in the mean time the truce was prolonged to the $15 t^{\text {th }}$ of May

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The earl of Angus comes into power.
An. $5^{2} 5$. 525. On his arrival at Edinburgh, he found the earl of Angus the leading man in parliament; by whole influence it was determined that the Scots fhould renounce their league with France, and fubflitute in place of it a fimilar league with England; and that the king fhould be brought up at the Englifh court till he was of an age proper for marriage: but at the fame time they required of Henry to break off all engagements with Charles V. who was the bitter enemy of Francis, and at that time detained him prifoner. To this the Englifh monarch returned but a cool renly, being then engaged in a number of treaties with the emperor, among which one was concerning the marriage of the pri..cefs T. Iary with his imperial majelty himfelf; however, before Cafiilis returned, a truce of two years and a half was concluded between England and Seotland.

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Is oppoled by tue queenmuther,
$43^{6}$
Wh. is be. fieged in Jilinburgh caftic.

Now, however, the queen-motl.er, though the had always been a warm advocate for an alliance between the tro nations, difliked the means of bringing it about.She faw her hulband's party increafins every day in power; fo that now fhe had no other refource but to keep poffeftion of the king's perfon, whom the removed to the cafle of Edinburgh. Being now under the necellity of convening a parliament, it was refolved to hold it within the cafle; but this being an unconftitutional meafure, gave a pretext to the earl of Arram and his party to complain of the innovation. They began with remonftrances; but finding thele ineffectual, they formed a block de of the caftle with 2005 men, and cut off all communication with the town by means of ticncies. As no provitions cruld be introduced into the collte, the gueen ondered f.me of the camon to be turned as, inft the to $n$, in crder to firce the citizens to termirate the blockade. Sevira' hots vere fired: but when all thin s ap eeared ready for a civil war, matters were compromifed, the 1 sh in furh an imperfect manter as le e very little room to hoje for betfect tran, j! ity. It was agreed, that the king fiosted retro ec
out of the cailic of Idinburgh to the palace of Holyroodhoule; from which he thould repair with all polfible magnificence to his parliament, in the houfe where it was commonly hicld; and there a termination was to An. 1:26. be put to all differences. This agreement was ligned on 477 the $25^{5}$ h of Februaly $1: 26$. The parliament eccord- Marriage ingly met, and the king's narriage with the princels of fis James IEngland was reti.ied; but no mertion was made of Englilh the king's being fent for his education inzo that coun- princefs retry; on the contrary, he was committed to thie care of lioved on. eight lords of parliament. Thero were to have the cultody of the ling's perfon, cvery one his month in rotation, and the whole to fand for the government of the itate; yet with this limitation, " that the king, by their counfel, fhould not ordiin or determine any thing in great affairs to which the queen-dowager, as mincels and dowager, flould not vive her confent." This partition of power, by giving the quect-dowager a nesative in all public matters, foon threw evory thing into conft:foon. The earl of Angus, by leading the king into various fcenes of pleafu:e and cilfipation, fo gained the afcendency over him, that he became almolt totally guided by him. The quees mother, perceiving that fhe could not have accefs to her fon, without at the fame time being in company with her hufband, whom the hated, retired fuddenly with her domettics to Stirling. Thus the king was left under the fole tuition of the corl He is ifft of Angus, who abufed his power, engroffing all the in the places of honour or profit. The archlithop of $\mathrm{St}_{\text {the ean of }}$ Audrews having now joined the rqueen's party, advifed megu: her to make a fermal domand upon her huband, thit. the order of government which had heen fettled by the lant parliament thould take place, and that under a penalty he flomld fet the king at liberty. To this the earl anfwered by a hind of manifeflo drawn up by his brother ; in which he declared, that "the earl of Angus having been fo highly favoured by his good uncle the ling of Lngland, and that lames limfelf being under great obligations to lim , nether the gueen 1 or the other lords need be in any pain about him, as he chofe to fpend his time with the earl of Angus rather than with any lord ia the kingdom." Janes hinfelf, h weser, Attempts had fufficient difcernment to perceive, that, notwith-to liper flanding all the fair pretences of the earl of Angus, he lusliberty. was in fact no better than his pifoner ; and refolved to attempt the recovery of bis litenty: The earls of Argyle and Irran had for fome time retired from court, where they had no thare in the admimiftration, and were living on their own cfatec; but the earl of Lenox diflembled his fentiments fo well, that he was fufpeced nicither lyy the ea: 1 of Ancus, nor any of the Dou las family, who were his $\}$ artif ns. The kina beir of gained upon by his infinuating hehaviour, opened lis mind to him, and requelled his :fill, noe agsind his treacherous kecpers. At the fame time he fent letters to his mother, and the heads of her porty, by fome of his domeftics whom I cnox liad pointed out, inticating them to temo:c him from the calf, and not fuffer lim any longer to remain under his imperious juridiction; adding, that if this could rot tee done by any other means, they the whll uf: ferce of irms.

On sere vi:g t' is letter, the queen-mother and her perty ifforal ked heir force at Stirlin or, anl with sut k's of time began the it march for Ldimbur h. Sy is, on the oller land, prepted to of wote th. An it vifeir,

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but at the fame time to carry along with him his royal charge. This refolution being made known to the queenmother, the was fo much concerned for the fafety of her ion, that the whole party dirbanded themelves; and thus the authority of the car! of Angus feemed to be more eltablifhed than ever. Nothing, indeed, was nosv wanting to render him defpotic but the poffeffion of the great feal, which the archbilhop of St Andrew's had carried with hint to Dunfermline. As no deed of any confequence could be executed without this, he prevailed on the king to denand it by a fpecial meflage;
$44^{1}$
The queen mother divorcesher hubband. in confequence of which, the archbilhop was obliged to relinquith it. About this time the divorce which had been fo long in agitation between the queen-mother and the earl of Angus actually took place; and this, no doubt, increafed the difilike of James to his confinement, while the imprudence of Angus daily gave frefh reafon of difguit. As Angus knew that he had no firm fupport but in the attachment of his followers to his perfon, he fuffered them to rob and plunder the eftales of his opponents without mercy. Thefe, again, did not fail to make reprifals; fo that, towards the end of the year 1526 , there was fcarcely any appearance of civil govermment in Scotland. Thus the court became almoft totally deferted; every nobleman being obliged to go home to defend his own eltate. Even Angus himfelf fhared in the common calamity, and hence was frequently obliged to leave the king to the cuftody of Lenox. To this nobleman the king now made the mott grievous complaints, and charged him to contrive fome plan for his efcape. Lenos accordingly recommended to him the baron of Buccleugh, who was very powerful in the fouthern parts, and a violent enemy to Angus and the whole family of Douglas. To him he gave isinfuctions to foment the diforders in the fouthern parts to fuch a degree as to require the king's perfonal prefence to compofe them. Buccleugh was then to attack the party, and take the king by force from the Douglafes. This fcheme was put in exccution, but Buccleugh had the misfortune to be defeated; fo that the attempt proved abortive, and James found himfelf in a worfe fituation than before. After this attempt, however, as the earl of Angus could not but know that Lenox had been acceffory to it, the former behaved towards him with fuch vifible indifference, that Lenox openly declared againft him, and advifed the king to form a friendithip with the archbiflop of St Audrew's, in order to effect his liberty. This was accordingly done; but the interelt of the archbihop and Lenox was overbalanced by that of Arran and the Hamilton family, whom the earl of Angus had now drawn over to his party. The earl of Lenox, however, having received powers from the king for that purpofe, fuddenly retired from court ; and publifhed a manifelto, inviting all loyal fubjects to affilt him in delivering the king from confinement. In confequence of this lie was foon joincd by a numerous army, with whom he advanced towards Edinburgh. Angus did not fail to affemble his adherents; and fent orders to the inhabitants of Edinburgh to take the field, with the king at their head. The citizens immediately put themfelves under arns; but James, pretending to be indifpofed, Sir George Dou'las, brother to the earl of Angus, made him the following firech : "Sir, rather than our enemies fhould taks you from us, spe will lay hold of your perfon;
and fhould you be torn in pieces in the fruggle, we Scctland. will carry off part of your body." Upon this ipeech, which James never forgot, he mounted his horfe and fet forward to Linlithgow, but with a very flow pace; infomuch that Sir George Douglas, afrald of not coming in time to fuccour his brother, made ufe of many indecent expreffions and actions to pufh James on to the field of battle. Three expreffes arrived from the earl of Angus; the firl informing his brother that he was about to engage with a fuperior army; the fecond, that Angus was engaged with a divifion of Lenox's army, commanded by the earl of Glencairn; and that Lenox himfelf was engaged with the Hamiltons. The third informed him that Lenox, if not astually defeated, was on the point of being fo. Upon receiving this laft who is denews, James haftened to the field of battle, that hefeated and might fave Lenox, and put an end to the flaughter.-_killed. But he came too late: for the royal party was already defeated with great flaughter ; and Lenox himfelf, after being wounded and taken prifoner, was murdered by Sir James Hamilton.

On the night of the battle, the king was removed to Linlithgow; and though he was under the greateft grief for the fate of Lenox, the behaviour of the Douglafes ftruck him with fuch terror that he diffembled his fentiments. The earl of Angus led his victorious troops into Fife, in hopes of furpriiing the queen-mother and the archbifhop of St Andrew's. The queen mother, on the news of his approach, fled, with her new huiband nother and Henry Stuart, brother to Lord Evandale, to Edinburgh, archbifhop and both were admitted into the cafle. The archbihop cbliged to fled to the mountains, where he was obliged to keep ${ }^{\text {fly }}$ cattle as a hepherd. Angus, after having plundered the caftle of St Andrew's and the abbey of Dunfermline, returned in triumph to Edinburgh, where he prepared to befiege the caitle ; but the queen-mother, hearing that ber fon was among the number of the befiegers, ordered the gates of the cafle to be thrown open, and furrendered herfelf and her hufband prifoners to James, who was advifed to confine them to the cafle. After thefe repated fucceffes, the earl of Angus effablifhed a kind of court of juftice, in which he profecuted thofe who liad oppofed him, among whom was the earl of Caffilis. He was offered by Sir James Hamilton, natural fon of the earl of Arran, the fame who had murdered Trial and Lenov, an endemity if he would own himlelf a vaft curder of of that houfe; but this condition was rejected. Being Caffilis called to his trial, and accufed of having taken arms againft the king, a gentleman of his name and family, who was his advocate, denied the charge, and offered to produce a letter under James's own hand, defiring him to affit in delivering him from his gaolers. This ftriking evidence confounded the profecutor fo much, that the earl was acquitted; bui on his return home he was way-laid and murdered by one Hugh Campbell, at the infligation of Sir Jamcs Hamilton.
During thefe tranfactions in the fouth, many of the Highland clans were perpetrating the molt horrid fcenes of rapine and murder, which alfo prevailed in fome parts of the lowlands. The fate of the borders was little better than that of the Highlands; but it engaged the attention of Angus more, as he had gieat interen in. thefe parts. Marching, therefue, ačuntt the banditti which infefted thefe dillicies, he foon reduced them to fubjection. His porver feemed now to be firmly efta-

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Scotland. $4+7$ $\mathrm{Jam}^{4+7}$ elcapes $f_{1}$ im his confinem:nt. began to treat with Sir George Douglas, to whom hee off-red lucrative leafes and oiher emoluments if he would intercede with the reent, as Angus was called, in his favour. This was readily agreed to; and the archbilhop was aliowed to return in fafety to his palace about the fime time that Angus returned fiom his cracdition $a_{\mathrm{o}}$ ainft the borderers. Nolhing was then fen at court but fellivities of every kind, in which the gquets mother, who was no:v releafed from hier confincment, took part; and the was afterwards fuffered to depart to the caitle of Stirling; which Angus, not confidering its inymortanes, had neglected to fecure. In the mean time the archbilhop invited the Douolafes to feend lome days with him at his catle; which they accordingly did, and car ried the king along with them. Here James difiembled fo well, and feemed to be fo enamoured of his new way f life, that Angus thought there could be no danger is leaving him in the hands of his frieads, while he returned to Lothian to fettle fome public as well as priva:c affairs. Having taken leave of the ling, he left him in the cuftody of his uncle Archibald, his brother Sir George, and one James Doughs of Parkhead, captaia of the guards who watched his majefty on pretence of doing him honour. The earl was no fooner gone than the archbihop fent an intitation to Sir George Douglas, defiring him to ceme to St Aadrew's, and there pat the laft hand to the leares, and finith the bargains that hal been fipken of between them. This was fo plauible, that he immediately fet out for St Andrev's; while his uncle the treafurer went to Dundee. James thinking this to be the belt opportunity that ever prefented itfelf for an efcape, refolved to avail himfelf of it at all events; and found means, by a private meflage, to apprife his mother of his defign. It was then the feafon for hunting and diverfion, which James often followed in the park of Falkland: and calling for his forrefter, be told him, that as the weather was fine, he intended to kill a ftag nest moruing, ordering him at the fame time time to fummon all the gentlemen in the ncighbourbood to attend him with their beft dogs. He then callad for his chief domeftics, and commanded them to get his fupper early, becaufe he intended to be in the fild by day-break; and he talked with the captain of his guard of nothing but the excellent fiport he expected next morning. In the mean time, he had engaged two young men, the one a page of his own, the other John Hart, a helper about his flables, to attend him in his Hight, and to provide him with the drefs of a groom for a difguife. Havirg formally taken leave of his attendants, charging them to be ready early in the morning, and being left alone, he ftole foftly out of his bed-chamber. went to the ftable unperceived by the guards, öreficd himfeli in his difguife ; and he and his companions mounting the three beft horles there, galloped to Stisling caftle; into which, by the queen's appointmerit, he was admitted foon after day-break. He commanded all the gates to be fecured; and the queen having previouly prepared every thing for a vigorous defence, orders were given that none fhould be admitted into the caftle without the king's permifion.

About an hour after the king's efcape from Falkland, Sir George Douglas returned; and being affured that his majefty was aflcep, he went to bed. It appears

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that James lat been feen ard known in his flight, for antiad. in the morning the rallif of Abernethy came poft hafte to infortn Siz Georese that the kirg had pafied Stirling bridge. They lad, hovever, fome glimmering hops that he king micht be gove to Bumbrigh : but that furn i.t tas tion tound to tic falle; and an exy refs was dipatu ed, tuferming Anpus of all that had ha, pened. The ear! quikily rephixad to Falk land, whete he and his frituds came to a refolution of going to Sti:ling, and demanding accef's to the king.

James hy this time had ifrued letters to the carls of He preHuntly, Argvle, Athol, Glencairn, Menteith, Rothes, pares torar:d Ectinton ; the lords Gre!.m, Livingiton, Lindfay, venk him. Sinelair, Ruthven, Drummand, Evandale, Mia':well, and Semple. Before all of them could arrive at Stirlin , the curl of Angus and his friends were upon their journey to the fame place; but were ftopped by a leerald at arms, commanding them on their aliegince not to approarh within fis miles of the king's reflience. Thi order having fufficiently intimated what th y were to expect, the earl de liherated with his party how he thould proceed. Some of them were for marching on and taking the caftle by furprife: but that was found to be impracticable, efpccially as they hid no artilery. The eart and his brother thereforc refolved to make fhow of fu'miffion to the king's order; and they accordingly went to Linlithgow. By this time all the nobility already mentioned, and many otlecrs, had affembled as. Stirling; and James, calling them to council, inveict ed againft the tyranny of the Dourlates with an acr: mony that fufficiently difcovcred $u!\cdot \mathrm{t}$ p pain it muft have given him when he was obligso to beat it in filence. He concluded his fpeech with the'e words: "Therefore I defire, my lords, that I may be fatififed of the faid earl, his kin, and friends. For I wow that Scotland tha!! not hold us both, while I be revenged on him and his."

The refult of the council's deliberation was that proclamation fhould be made, renewing the order for the Douglafes not to approach the court, and divetting the eari of Angus and his brother of all their public cm ployments. In the mean time, fuch vas the moderation of the aliembly, that by their alvice James ordered the carl to retire to the north of the Spey till his pleafure thould be known; but his brother was commanded to furrendet himfelfa prifoner in the cafte of Edinburgh, to take his trial in a very full parliament (all the members being fummoned to attend), to be held in that city next September. The carl and his brother confidered compliance with thefe conditions as a prelude to their deftruction ; and refolved to juftify their treafons by fill greater excelics, in furpifing the town of Elinburgh, and holding it againft the king and parlizment, before the latter could affemble. Ififorians have not donc that juffice to the proccedings of the royal parly on this occafion which they deferve. The management of the king's efcape, his reception into Stirling, the fortifying that cafle, and the ready obedience of his great nobility, fome of whom attended him with their followers before they received any fummonfes for that purpofe, are proofs of wife and feirited deliberations. Their conduet at this time was equally confificnt with the fame plan of forcfight.

It was naturally to be fuppofed that the Douglafes, who remained affembled in a numerous body, would

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n: the attempt alrendy menticanal, but the royalits hat the preaution to difpatch the lord Ataxwell and the baron of Lachinvar, wath a body of troons, to take pul. lion of the town, till lames could anive with 2000 fores to their relief. Maxn 11 and Lochinvar made fuch difpate's, that they were in poffelfion of the town when the Dunglafes appeared beiore it, and repulled them; while a molt terible Itorm had featered the troops under James before he could come to their affiltance, fo effectually, that, being left almof without alte dants, his perion might have been taken by the fmallelt party of the enumy. On the retreat of the Doughafes from Edinburgh, the parliament met; and none of them appearing in pufuance of their fummons, the earl of Angus, his brother Sir George Douglas, his uncle Archibald Douglas, and Alexander Drummond of Carnock, with fome of their chief dependents, were indicted, and their eltates forfeited for the following of fences: "The affembling of the king's lieges, with intenti i o have affalled his perfon; the detaining of the king ag intl his will and pleafure, and contrary to the articies agrced upon, for the fpace of two years and more; all which time the king was in fear and danger of his life." We know of no advocate for the earl and his freeds but one Banantyne, who had the courage to plead their caufe againtt thofe heinous charges ; and fo cxafperated were both the king and parliament againft them, that the former fwore he never would forgive them, and the latter that they never would intercede fir their pardon. Thus it was not deemed fufficient fimply to declare their refolutions; but the folemnity of oaths was added with an intention to difcourage the king of England from continuing the vigorous ap$p$ ications he was every day making, by letters and otherwife, for the pardon of Angus; and to exclude all hepes of that kind, James created his mother's thisd hubband (to whom the had been married for fome time) Lord Methven, and gave him the diredion of his a.tiliery.

The wifgrace and forfeiture of the Douglafes having ori icd many $v$ cancies in the ftate, Gavin Dunbar, arcl:/ !hop of Glafgow, and tutor to the king, was nomin ued lord cha cellor, though but indifferently qualificd for a poft which ought to have been filled by an able liatci:..n; and Robert Carncrofs, a perfon (fays Buchana (1) more eminent for wealth than virtue, was made t". Dice: : but this halt was foon after difplaced, being tufpected of favouring the Duuglafes; and Robert Burton, one of the king's favourites, was appointed to f.eceed lim. The Douglaft; ftill kept their arms; a d bui joized by a great number of outlaws and rob-b-s in the fouth, they ravaged ail the lands of their en mice, carryins forir devalations to the very gates of Edin urgh. A commifion of licutenancy was offeref to the ea 1 of Bothwell to aet againlt thofe rebels: but be declain: it, it w. s accepted by the earl of Arnale and Lorl' Hume, who did great fervice in protectIIf the ou: try from the outhaws. Several village, bueser, in the nei, h'ouriood ef Edinhurgh, were San ut ; And all the provifions which the Douglafes could whet were carried cff to their calte of ' 'antallon, "inic' now ferved as their headquariers, and was threatTind wih a

It is remarkatle, that the colle of Danbar remained 4.: the l. in's of the duke of Alb.ny's garrifon, who
recenibid to mafter but lim. The place was well suotland. ftoruf with artillery of all kinds; and lying in the neighbourhood of I antallon, it was ealy to tranfport them to the fiege : but lames thouglit he had no right to make ufe of them without the content of one Mau. rice, governor of the caltle. Having fummoned, by proclamation, the inhabitants of Fife, Angus, Strather:1, Stirlingthire, Lothian, Merfe, and Teviotdale, to be ready to compear at Edinburgh on the 1oth of December, with 40 days victuals, to affilt in the fiege, he fent three noblemen to borrow artillery from Maurice, and to remain as pledges for the fafe redelivery of the fame; and the feveral pieces required were accordingly fent hima. Thais delicacy is the more refmarkable, as we James is are told that the duke of Albany had given orders that difappointevery thing in his caltle thould be at the king's fervice. ed in his Howeve: unanimous the parliament might appear againft revenge. the Douglafes, James was but ill-feconded in this attempt. This proceeding, in a country where the Douglales had fo many comections, carried with it an appearance of cruelty, and a thirft of revenge, elpecially as James had chofen fuch a feafon of the year fur carrying on the fiege. In flort, after battering the place for fome days, and lofing one Falconer, his chief engineer, the king was obliged to abandon his enterprife, or rather to turn the fiege into a blockade, with no great credit to his firt military attempt in the field. Some hiftorians intimate, that Angus found means to corrupt. the other engineers ; but we find, that before this time, a negociation was going forward between James and the king of Ergland; the nature of which proves that the former was now rendered more placable towards the Douglafes, and this was the true reafon why the fiege was fufpended.

The truce batween Scotland and England was now near expiring ; and Henry, under that pretence, gave a commiffion to the prior of Durham, Thomas Magnus, Sir Anthony U'ghtred captain of the town and caftle of Berwick, William Frankelyn chancellor of Durham, and Sir Thoras Tempeft. James feems to have been in no haite to enter upon this negociation, becaufe he underftood that the Englith commiffoners were privately infructed to infilt upon the Douglafes being reftored to their eftates and dignities. England was at that time The ${ }^{453}$ the principal ally of Francis again? the emperor ; and glales obthis gave a pretence to Francis to interpole fo far in fa- tain a fevour of the Douglafes, that he brought James to con- in Eurerereat fent to a prelirinary negociation for their obtaining at leaft a fecure retreat in England. 'This was at laft complied with.

James being now delivered from all dread of the Douglafe, and under no controul from any party, fhowed excellent dilpofitions for government. Finding that the Tanci 4.54 bordcrers were by no means pleafed with the late treaty, duce the: and that they were renewing their depredations, he re-borderesfolved to ftrike at the root of an evil which had fo long proved difgraceful and dangerous to his anceflors, by giving no quarter to the chiefs of thefe robleri, wholic principal refidence was in Liddefdale. This was the n: re nec fiary, as their daring attempts had exafperated th: Enclith fo much, that they had actually burnt a town in Teviotdale ; and had killd one Robert Kerr, a man of fomse confequence. Two of the chiefs of the Scotch b-idurers were Cockburn of Kenderlaw, and Adam Scot, commonly ca"led king of the thiseres. Buth

Scoeland, of them were barons; and had been fo inured to the practice, that they thought there was no crime in robbing: they therefore appeared publicly in Edinburgh; where James ordered them to be apprehended, tried, and hanged. He next proceeded with great frmmefs againut many noblemen and principal gentlemon, who were only fufpested of being difaffected to the late peace. All of then had behased with great lyyalty, and fome of them had done him the molt important fervices. Of this number were the earl of Hume, the lord Maxwell, with the barons of Buccleuch, Farniherit, Polwart, Johufton, and Mark Kerr. Though we know nothing particularly of what was laid to the charge of thefe noblemen and gentlemen, yet fo zealous was James for the impartial adminiltration of juftice, that he ordered them all, with many other chief gentlemen of the borders, to be fent to prifon; where they lay till they entered into recugnizances themfelves, and found bail for their good behariour.

Of all the party of the Douglafes, none of any note excepting Alevander Drummond of Carnock was futfered to return home, at the earneft requeft of the ambafladors, and the treafurer Barton. This lenity was of very little confequence; for James having appointed the earl of Murray to be fole warden of the Scotch marches, with power to treat with the earl of Northumberland, their conferences had broken off on account of frefh violences happening every day; and fome information he had received from them, had prevailed with James to imprifon the noblemen and gentlemen already mentioned. He now refolved to attempt in perfon what his predeceffors and himfelf had fo often failed to accomplifh by their deputies. As he was known to be violently addicted to hunting, he fummoned his nobility, even on the north of the Forth, to attend him with their horfes and dogs; which they did in fuch numbers, that his hunting retinue confilted of above 8000 perfons, two-thirds of whom were well armed. This preparation gave no fufpicion to the borderers, as great hunt-ing-matches in thofe days commonly confifted of fome thoufands; and James having fet out upon his diverfion, is faid to have killed 540 deer. Among the other gentlemen who had been fummoned to attend him, was John Armitrong of Gilnockhall. He was the head of a numerous clan, who lived in great pomp and fplendor upon the contributions under whith they laid the Engliih on the borders. He was himfelf always attended by 26 gentlemen on horfeback, well mounted and armed, as his body-guard. Having received the king's invitation, he was fond of difplaying his magnificence to his fovereign; and attiring himfelf and his guard more pompoully than ufual, they prefented themfelves before James, from whom they expected fome pasticular mark of diftinction for their fervices againft the Englifh, and for the remarkable protection they had always given to their countrymen the Scots. On their firft appearance, James, not knowing who he was, returned Armitrong's falute, imagining him to be fome great nobleman; but upon hearing his name, he ordered him and his followers to be immediately apprehended, and fentenced them to be hanged ipon the fpot. It is faid that James, turning to his athendants, afked them, pointing at Armitrong, "What does that knave want that a king thould have, but a crown and a fword of honour ?" Armftrong begzed hard for his life ; and offer-

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ed to ferve the king in the field with forty harfomen, Scothand. befides making him large prefents of jewels and muncy, with many other tempting offers. Furding the kug inexorable, "Fool that I am (faid he) to look for warm water under ice, by afking grace of a gracelefs face;" and then he and his followers fubmitted to their fate. Thefe and fimilar executions reftored peace to the borders.

Hitherto we have confined ourfelves chiefly to the State of civil tranfactions of North Britain, and have only inci-the Scotdentally noticed the ecclefiaftical affairs. Thefe are tifh church now, however, to claim a confiderable thare of our at- at the betention, as about this time the firit of the reformed re-ginning of ligion had extended itfelf to Scotland, where it foon the 15ih made a moft rapid progrefs.

We have feen, that for feveral centuries, the hierarchy of North Britain poffeffed no finall degree of infiuence and power; but we lave found few inftances of any remarkable refpect being paid to the fupremacy of the Roman pontiff. The pope, indeed, as fupreme head of the church, had long affumed the right of confecration, and this right, in the opinion of thofe ages, was undoubted, according to the cftablithed law of the Chriftian world. The fpiritual jurifaction of the pope was always acknowledged; but before the end of the 12 th century, his temporal power was difputed, becaufe it would have abforbed the fovereign right of independent princes. After many ftruggles, Pope Celeftine III. in 1188, declared the church of Scotland to be the daughter of Rome by Special grace, and to be immediately fubject to the apottolic jurifdiction. This was confidered by the Scottith clergy as a charter, by which they were emancipated from the claims of jurifdiction which had been brought by the Englifh archbifhops of York and Canterbury.

From the beginning of the 12 th century we begin to meet with inftances of national councils of the Scottifh clergy, at which the pope's legates affitted; but itill we find no authority aflumed by the pope in temporal matters, before the reign of Alexander II. when the people of Scotland were excommunicated for engaging in hoftilities with King John of England, then the adopted fon of the church. This excommunication, indeed, produced but little effect, and during a reign which reflected glory on the king, and was productive of advantage to his kingdom, Alexander nearly eftabliihed the independence of the Scottigh church.

In the progrefs of papal ufurpation, the court of Rome proceeded, from appropriating the revenues of the Scottifh church, to the appointment of the Scottifh bifhops. This ufurpation was firft attended with fuccefs in 1259 , when the pope appointed his own chaplain to the bifhopric of Glafgow. The church of Scotland, however, to thew her independence on papal authority, affembled a general council at Perth in 126 g. This was called by one of their own bilhops, who prefided at its meetings, and by this affembly was enacted a body of canons, which remained the ecclefiattical code of Scotland till the epoch of the reformation. Such councils continued to aftimble from time to time for correeting clerical abufcs, and maintaining the fredom of the Scottifh church.

The right of prefcntation appears to have been exerted from the 12 th century in North Britain, as it has $4!$ always

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Scotlard. always been exerted in England. The bifhops were named by the king, elected by their chapters, and confecrated by the pope, or by tome of the other bilhops. The king appointed the rural deans, and the chancellor of Scotland exercifed the king's right of prelentation to the fmaller benefices. The barons enjoyed the right of prefentation to thofe benefices which had arien from their own munificence, or the piety of their anceftors. The bihops and abbots had acruired, by the royal charters, or grants from the barons, the right of advowfon over many churches, and from this right were deduced other privileges of great importance *.
nters's
Catedonia,
rol. i .
That form of popery which prevailed in Scotland was of the moft bigotted and illiberal kind. Thofe
doctrines which are moft apt to fhock the human undertlanding, and thofe legends which fartheft exceed belief, were propofed to the people, without any attempt to palliate or difguife them; nor did they ever call in queftion the reafonablenefs of the one, or the truth of the other.

The power and wealth of the church kept pace with the progrefs of fuperifition; for it is the nature of that fpirit to obferve no bounds in its refpect and liberality towards thofe whofe character it efteems facred. The Scottifh kings early demonffrated how much they were under its influence, by their vaft additions to the immunities and riches of the clergy. The profufe piety of David I. who acquired on that account the name of faint, transferred almoft the whole crown lands, which were at that time of great extent, into the hands of ecclefiaftics. The example of that virtuous prince was imitated by his fucceflors. The fpirit fpread among all orders of men, who daily loaded the prieflhood with new poffelions. The riches of the church all over Europe isere exorbitant; but Scotland was one of thofe countries wherein they had farthelt exceeded the juft proportion. The Scottifh clergy paid one half of every tax impofed on land; and as there is no reafon to think that in that age they would be loaded with any unequal fhare of the burden, we may conclude, that by the time of the Reformation, little lefs than one half of the property in the nation had fallen into the hands of a fociety, which is always acquiring, and can never lofe.

The nature, too, of a confiderable part of their property extended the influence of the clergy. Many eftates throughout the kingdom held of the church; church-lands were let in leafe at an eafy rent, and were pofieffed by the younger fons and defcendants of the beft families. The connection between fuperior and valfal, between landlord and tenant, created dependences, and gave rife to a union of great advantage to the church; and in eftimating the influence of the po pifh ecclefiaftics over the nation, thefe, as well as the real amount of their revenues, muft be attended to, and taken into the account.

This extraordinary thare in the national property was accompanied with proportionable weight in the fupreme council of the kingdom. At a time when the number of the temporal peers was extremely fmall, and when the leffer barons and reprefentatives of boroughs feldom attended parliaments, the ecclefiaftics formed a
confiderable body there. It appears from the ancient Sootiont rolls of parliament, and from the manner of choofing the lords of artieles, that the proceedings of that high court mult have been, in a gicat meafure, under their direction.

The reverence due to their facred character, which was often carried incredibly far, contributed not a little towards the growth of their power. The dignity, the titles, and precedence of the popilh clergy are remarkable, both as caufes and effects of that dominion which they had acquired over the reft of mankind. They were regarded by the credulous laity as beings of a fuperior fpecies; they were neither fubject to the fame laws, nor tried by the fame judges. Every guard that religion could fupply, "as placed around their power, their poffefions, and their perfons; and endeavours were ufed, not without fuccefs, to reprefent them all as equally facred.

The reputation for learning, which, however inconfiderable, was wholly engroffed by the clergy, added to the reverence which they derived from religion. The principles of found philofophy, and of a juft tafte, were altogether unknown; in place of thefe were fubitituted fudies barbarous and uninftructive; but as the ecclefiaflics alone were converfant with them, this procured them efteem; and a very flender portion of knowledge drew the adniration of rude ages, which knew little. War was the fole profeffion of the nobles, and hunting their chief amufement; they divided their time between thefe: unacquainted with the arts, and unimproved by fcience, they difalained any employment foreign to military affairs, or which required rather penetration and addrefs, than bodily vigour. Wherever the former were neceflary, the clergy we:e entrufted, becaufe they alone were properly qualified for the truit. Almoit all high offices in civil government devolved, on this account, on them. To all this we may add, that the clergy being feparated from the reft of mankind by the law of celibacy, and undill racted by thofe cares, and uniscumbered with thofe burdens which occupy and opprefs other men, the intereft of their order became their only object, and they were at full leifure to purfue it.
The nature of their function gave them accefs to all perfons and at all feafons. They could employ all the motives of fear and of hope, of terror and of confolation, which operate molt powerfully on the human mind. They haunted the weak and the credulous; they befieged the beds of the fick and of the dying; they fuffered few to go out of the world without leaving marks of their liberality to the church, and taught them to compound with the Almighty for their fins, by beftorying riches on thofe who called themfelves his fervants ${ }^{*}$. * Roberr-

During the Scoto-Saxon period, there were in Scot-fon's Scotland two archbifhoprics, viz. thofe of St Andrew's and land, Glafgow, and ten bilhoprics, viz. thofe of Orkney, the book ii. Weftern iCands, Galloway, Dunkeld, Moray, Brechin, Dunblane, Aberdeen, Rofs, and Argyle or Lifmore ( N ). To the archbilhopric of St Andrew's were attached eight deaneries, and nine to that of Glafgow.

The opinions of Luther had been propagated in Bri- 457 tain foon after his preaching in 1517. They had for the iefor-
fome mation.

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iome years infenfibly gained ground; and, when the contentions began betwcen James and his nobility, were become formidable to the eitablihicd rcligion. We have feen how lames efcaped from the hands ot his nobles by means of the archbilhop of St Andrew's. To the Inly James they naturally oppofed the reformation, James became favoured the clergy. a zealous perfecutor of the reformed. On the other hand, the wobility having already oppofed the king and clergy in civil affairs, did the fame in thofe of religion. The clergy finding themfelves unequal in argument, had recourfe to more violent methods. Rigorous inqquifitions were made after heretics, and fires were everywhere prepared for them.
459 Prem The firf perfon who was called on to fuffer for the Martvrick reformed religion was Patrick Hamilton abbut of Ferne. Hamiton. At an eanly period of life he had been appointed to this abbacy; and having imbibed a favourable idea of the doctrines of Luther, had travelled into Germany, where, becoming acquainted with the moft eminent reformers, he was tully confirmed in their opinions. Upon his return to Scotland, he ventured to expofe the corruptions of the church, and to infift on the advantages of the tenets which he had embraced. A conduct fo bold, and the avidity with which his difcourfes were received by the people, gave an alarm to the clergy. Under the prete:ce of a religious and friendly conference, he was feduced to St Andrew's by Alexander Campbell, a Dominican friar, who was inftructed to remonftrate with him on the fubject of the reformation. The converfations they held only ferved to eitablif the aboot more firmly in his fentiments, and to inflame his zeal to propagate them. The archbilhops of St Andrew's and of Glafgov, and other dignitaries of the church, conftituting a court, called him to appear before them.
An. 15²7. The abbot neither lof his courage nor renounced his epinions. He was accordingly convicted of heretical pravity, delivered over to the fecular arm, and executed in the year $1527(0)$. This reformer had not attained the 24th year of his age. His youth, his virtue, his magnanimity, and his fufferings, all operated in his favour with the people. To Alexander Campbell, who infulted him at the ftake, he objected his treachery, and cited him to anfwer for his behaviour before the judge-ment-feat of Chrif. And this perfecutor, a few days after, being feized with a frenzy, and dying in that condition, it was believed with the greater confidence, that Mr Hamilton was an imocent man and a true

## 4so martyr

Excitns ce- A deed fo affecting, from its novelty and in its cirrera! indig. cumtlances, excited throughout the kingdom an univeration. fal curiofity and indignation. Ninute and particular inquiries were made into the tenets of Mr Hamilton. Converts to the new opinions were multiplying in every quarter, and a partiality to them began to prevail even
among the Romifh clergy themfelves. Alexander Se:- Sertlanit. ton, the king's confeffor, took the liberty to inveigh again?t the crrors and abufes of Popery; to negleat, in his difcourfes, all mention of purgatury, pilgrunages, and faints; and to recommend the doctrines of the refurmed. What he taught was impugned; and his boldnefs rifing with contradiction, lie defended warmly his opinions, and even ventured to affirm, that in Scotland thete were no true and taithful bihops, if a judgement of men in this flation is to be formed from the virtues which St Paul has required of them. A farcafin fo juft, and fo daring, inflamed the whole body of the prelacy with refentment. They ftudied to accomplifis his dellruction; and, as Mr Seton had given offence to the king, whom he had exhorted to a greater purity of life, they flattered themfelves with the hope of conducting him to the Itake; but, being apprehenfive of danger, he made his efcape into England.

In 1533, Henry Foreft, a Benedictine friar, who dif- An. 1533. covered a propenlity to the reformed doctrines, was not $4^{63}$ fo fortunate. After having been imprifoned for fome Henty Fotime in the tower of St Andrew's, he was brought to his trial, condemned, and lcd to the llames. He had faid, that Mr Hamilton was a pious man, and a martyr; and that the tenets for which he fuffered might be vindicated. This guilt was aggravated by the difcovery that Friar Foreft was in poffeftion of a New Teflament in the Englifh language; for the priells efteemed a careful attention to the scriptures an infalliblc fymptom of herefy. A cruelty fo repugnant to the common lenfic and feelings of mankind, while it pleafed the infolent pride of the ecclefialtics, was deftroying their importance, and exciting a general difpofition in the people to adopt in the fullelt latitude the principles and fentiments of the reformed.

The following gear, James Beaton archbifhop of St An. IF: 4 Andrew's, though remarkable for prudence and moderation, was overawed by his nephew and coadjutor David Beaton, and by his brethren the clergy. In his own perfon, or by commiffion granted by hinı, perfecutions were carried on with violence. Many were diven into baniflment, and many were forced to acknowledge what they did not believe. The more itrenuaus and refolute were delivered over to punifhment. Among as allo thefe were two pivate gentlemen, Norman Gourlay and Gourlay David Straton. They were tried at Holyroodhoufe be-ton; fore the bifhop of Rofs; and refufing to recant, were condemned. King James, who was prefent, appeared exceedingly folicitous that they fhouid recant their opinions; and David Straton, upon being adjudged to the fire, having begged for his mercy, was about to receive it, when the priefts proudly pronounced, that the grace of the fovereign could not to be extended to a criminal whom their law and determination had doomed to fuffer.

A few years after, the bifhops having aflembled at with ${ }^{46} 3$ $4 Q_{2}$ Edinburgh, ral others.
(o) His tenets were of the following import, and are enumerated in the fentence pronounced againft him. " Man hath no frec-will. Man is in fin fo long as he liveth. Children, incontinent after their baptifme, are finners. All Chriftians, that be worthie to be called Chriftians, do know that they are in grace. No man is juftfied by works, but by faith only. Good works make not a good man, but a good man doth make good works. And faith, hope, and charity, are fo knit, that he that hath the one hath the reit; and he that wanteth tbe one of them wanteth the ren." Keith, Hif. of the Church ord State of Scoiland, Appendix, p. 3.

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Scotland. Edinburgh, two Dominican friars, Killor and Beverage, with Sir Duncan Sympion a priell, Robert Forrefter a gentleman of Stirling, and Thomas Forreit vicar of Dolour in Perththine, were condemned to te confumed in the fame fire.
An. 1539. At Glafgow, a fimilar fcene was acted in 1539: Hieronymus Ruffel a Gray-friar, and a young gentleman of the name of Kennedy, were accufed of herefy before the bifhop of that fee. Ruffel, when brought to the ftake, difplaying an undaunted demeanour, reafoned gravely with his accufers, and was only anfwered with reproaches. Mr Kennedy, who was not yet 18 years of age, feemed difpofed to difavow his opinions, and to fink under the weight of a cruel aftiction; but the exhortation and example of Ruffel awakening his courage, his mind allumed a firmnefs and conftancy, his countenance became cheerful, and he exclaimed with a joyful voice, "Now, I defy thee, Death; I praife my God, I am ready."
464.

Promotion of Gardinal Beaton,

James Beaton, the archbifhop of St Andrew's having died about this time, the ambition of David Beaton, his coadjutor, was gratified in the fulleft manner. He had before been created a cardinal of the Ronian church, and he was now advanced to the poffeffion of the primacy of Scotland. No Scottifh ecclefialtic had ever been invefted with greater authority; and the reformers had every thing to fear from fo formidable an enemy. The natural violence of his temper had fixed 465 itfelt in an overbearing infolence, from the fuccefs His charac- which had attended him. His youth had been paffed
in fcenes of political intrigue, which, while it communicated to him addrefs and the knowledge of men, corrupted altogether the fimplicity and candour of his mind. He was dark, crafty, and defigning. No ptinciples of juftice were any bar to his fchemes; nor did his heart open to any impreffions of pity. His ruling paffion was an inordinate love of power; and the fupport of his confequence depending only on the church of Rome, he was animated to maintain its fuperflitions with the warmelt zeal. He feemed to delight in perfidioufnefs and diffimulation: he had no religion; and he was itained with an inhuman cruelty, and the moft
open prolligacy of manners. In connection with thele Scotland. defects, he pulfeffed a perfevering obftimacy in purfuing his meafures, the ability to perceive and to practife all the ants which were neceffary to advance them, and the allurements of oftentation and prodigality.

He was fcarcely invelted with the primacy, when he exhibited an example of his talte for magnificence, and of his averfion to the reformation. He proceeded to St Andrew's with an uncommon pomp and parade. The earls of Huntly, Arran, Marichal, and Montrofe, with the lords Fleming, Lindfey, Erfkine, and Seton, honoured him with their attendance; and there appeared in his train, Gavin archbifhop of Glafgow and lord high chancellor, four bifhops, fix abbots, many private gentlemen, and a vait multitude of the inferior clergy. In the cathedral church of St Andrew's, from a throne erected by his command, he harangued concerning the ftate of religion and the church, to this company, and to a crowd of other auditors. He lamented the increafe of heretics; he infifted on their audacity and contempt of order ; he faid, that even in the court of the fovereign too much attention was fhown to them; and he urged the ftrong neceffity of acting againft them with the greateft rigour. He informed this affembly, that Sir John lee had cited Sir John Borthwick to appear before it, Borthwick for maintaining tenets of faith hottile to the church, and impeached. for difperfing heretical books; and he defired that he might be affited in bringing him to juftice. Tlse articles of accufation ( P ) were accordingly read againit him; but he neither appeared in his own perfon, nor by any agent or deputy. He was found guilty; and the cardinal, with a folemnity calculated to ftrike with awe and terror, pronounced fentence againft him. His goods and eftate were confifcated; and a painted reprefentation of him was burned publicly, in teftimony of the malediction of the church, and as a memorial of his obftinacy and condemnation. It was ordained, that in the event of his being apprehended, he fhould fuffer as a heretic, without hope of grace or mercy. All Chrifians, whether men or women, and of whatever degree or condition, were prohibited from affording him any harbour or fuftenance. It was declared, that every office
(p) They are preferved by Archbiflop Spotifwood, and difplay great liberality of mind, in a period when philofophy may be faid to lave been almoit unknown in Scotland. They are thus detailed by this judicious writer.

1. "That he beld the pope to have no greater authority over Cliriftians than any other bifhop or prelate had.
2. "That indulgences and pardons granted by the pope were of no force nor effect, but deviled to abufe people, and deceive poor ignorant fouls.
3. "That bifhops, priefts, and other clergymen, may lawfully marry.
4. "That the herefies, commonly called herefies of England, and their new liturgy, were commendable, and to bc embraced of all Chriftians.
5. "That the people of Scotland are blinded by their clergy, and profeffed not the true faith.
6. "That churchmen ought not to enjoy temporalities.
7. "That the king ought to convert the rents of the church into other pious ufes.
8. "That the church of Scotland ought to be governed after the manner of the Englih.
9. "That the canons and decrees of the church were of no force, as being contrary to the law of God.
10. "That the orders of the friars and monks fhould be abolifhed, as had been done in England.
11. "Tlat he did. openly call the pope fimoniac, for that he fold firitual things.
12. "That he did read heretical books, and the New Tcftament in Engliih, and fome other treatifes wricten by Melanethon, Oecolampadius, and Erafmus, which he gave likewife unto others.
13. "The laff and greateft point was, that he refufed to acknowledge the authority of the Roman fee, or be fubject thereunto." Hifl. of the Church, p. 70.

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Scotiand. fice of humanity, comfort, and folacement, extended to
$\xrightarrow{-}$
$4^{67}$
He fites in-
to E.gland.
$4^{68}$
Sir James Hamilton appointed a kind of inquifitor,
hira, fhould be confidered as criminal, and be punified with conffication and forfeitures.
Sir John Borthwick having been apprifed of his danger, Hed into England, wherc he was kindly received by Henry VIII. who employed him in negociations with the Protelant princes of Germany. Cardinal Beaton perceived with concern that this act of feverity did not terrify the people. New defections from the church were announced to him. Andrew Cunningham fon to the mafter of Glencairn, James Hamilton brother to Patrick Hamilton the martyr, and the celebrated George Buchanan the historian, were imprifoned upon fufpicion of herefy; and if they had not found means to efcape, would probably have perilhed at the ftake. In this declining condition of Popery, the cardinal held many mournful confultations with the bihops. All their intrigues and wifdom were employed to devife methods to fupport themfelves. The project of an inquifitorial court was conceived, and afforded a diftant view of the extirpation of heretics. To erect this tribunal, they allured James V. with the hopes of the confifcation and fpoils, which might enrich him, from the perfecution and punifhment of the reformed. He yielded to their folicitations, and gave them the fanction of his authurity.

A formal commiffion was granted, connituting a court of inquiry after heretics, and nominating for its prefident Sir James Hamilton of Fennard, natural brother to the earl of Arran. The officious affiduity of this man, his ambition, and his thirit of blood, were in a high degree acceptable to the clergy; and to this eminence their recommendation had promoted him. Upon the flighteft fufpicion he was allowed to call any perfon before him, to ferutinize his creed, and to abfolve or to condemn him. A tribunal fo dreadful could not have found a director more fuited to it. He was in hafte to fill the prifons of the kingdom with culprits, and was taking down in lifts the names of all thofe to whom herefy was imputed by popular report, and whom the arts of malicious men had reprefented as the objects of correction and punifhment. But, while he was brooding over mifchief, and multiplying in fancy the triumphs of his wickednefs, an unexpected turn of affairs prefented Ha milton himfelf in the light of a criminal, and conducted him to the fcaffold.

The brother of Mr Hamilton the martyr, to avoid perfecution, had been obliged to go into banifhment; but, by the interceffion of his friends, he was permit-o ted to return for a fhort time to his own country, that he might regulate the affairs of his family. He was connected with Sir James Hamilton; and, trufting to the ties of blood, ventured to prolong his ftay beyond the period allowed him. This trefpals was trivial. Sir James Hamilton, being willing to give a fignal example of fevcrity, and by this means to ingratiate himfelf the more with the priefthood, took the refolution of making his own relation the victim of his power. Mr Hamilton, attentive to his perfonal fecurity, and not unacquainted with the molt private machinations of this inquifitor, difpatched his fon to the king, who was ahout to pafs the Forth in a barge, and intreated him to provide for his fafety, as Sir James Hamilton had conlpired with the houfe of Douglas to affaflinate him. James V. being at variance
with the houfe of Douglas, had reafons of fufpicien, Sc ritand. and was dilpofed to belicve cvery thing that is moft flagitious of Sir James Hamilton. He intructed the young gentleman to go with expedition to Edinburgh, and to open the matter to the privy-council: and that he might be treated with the greater relpect, he furnifled him with the ring which be was accullomed to fend to them on thofe important occafions which required their addrefs and activity. Sir James Hamilton was apprehended and imprifoned. An aecufation of having devifed and attempled the king's death at different limes was preferred againlt him. His defence appeared to be weak and unfatistactory. A jury, which coufifted of men of rank and character, pronounced him guilty; and, being condemned to fuffer the death 47 x of a traitor, he loft his head, and the quarters of his Condemnbody were expofed upon the gates of the city of Edin. cuted. burgh. The clergy, who could not prevent his trial and execution, regretted his death, but di'2 not think of appointing a fucceffor to him io their court of inquifition.

In other refpects, however, James fhowed great concern for the welfare of his people. Being diffatisfied with the ordinary adminififtation of juftice, he had recourfe to the parliament of Paris for a model of the like inditution in Scotland. Great objections lay againit juries in civil matters, and to ambulatory courts of juifice. The authority of the heritable juriddictions was almoof exclufive of all law ; for though the king might James re. prefide in them, yet he feldom did fo; and appeals be-gulates the fore the council were difagreeable and expenfive. The courts of inflitution of the lords of articles threw too much weight ${ }^{\text {juftice. }}$ into the:r fcale, as no bufinefs could be tranfacted in parliament but what they allowed or permitted; and it was always in the power of the king to direct them as he pleafed. The true fource of the public grievances, in matters of property, lay in the difregard fhown to the excellent acts which had paft during the reigns of the firft three James's, and which bad not been fuiticiently fupported in the late reigns. The evil had gathered ftrength during the minority of James V.; and he refolved to eltablith a ftanding jury for all matters of law and equity (for, properly fpeaking, the court of feffion in Scotland is no more), with a prefident, who was to be the mouth of the affembly. On the $13^{\text {th }}$ of May, An. $\mathrm{r}_{5 j}=$ 1532 , as we find by a curious manufcript in the Britilh mufeum, the lords of the articles laid hefore the parlia- Origrn of ment the propofition for inflituting this court, in the fol the court ment the propoition for infituting this court, in the fol- of $f$ filion.
lowing words: "Item, anent. (concerning) the fecond artickel concerning the or der of juftice; becaule our fovereign lord is maill defirous to have an permanent order of juttice for the univerfal of all his lieges; and therefore tendis to inflitute an college of cunning and wife men for doing and adminillration of juftice in all civil actions: and therefore thinke to be chofen certain perfons mailt convenient and qualified yair (there), to the number of fifteen perfons, half firitual, half temporal, with an prefident."

In the year $\mathbf{r} 533$, honilities were recommenced with England ; but after fome flight incurfions on both fides, a truce again took place. The moft remarkable tranf- Negocia. actions of this period, however, next to the religions tions tor perfecutions already incntioned, were the negociations marriags for the king's marriage. Indeed, there is fcarcely any monarch mentioned in hiflory tho feems to huve had a greater

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Scotland. greater variety of choice, or whom it was more difficult to pleafe. The fituation of aftairs on the continent of Europe, had rendered Scotland a kingdom of great confequence, as holding the balance between France, England, and the empire of Germany ; and each of the rival powers endeavoured to gain the favour of An. 1534. James, by giving him a wife.-In 1534, King Francis offered him his daughter ; and the match was itrongly recommended by the duke of Albany, who was ftill living in France, and ferved James with great fidelity. The fame year the Imperial ambaffador arrived in Scotland, and prefented, in the name of his matter, the order of the Golden Fleece to James, who had already been invefted with that of St Michael by Francis. At the fame time, he offered him his choice of three princeffes; Mary of Auftria, the emperor's fifter, and widow of Lewis king of Hungary; Mary of Portugal, the daughter of his fifter Eleonora of Auftria; or Mary of England, the daughter of Catharine and Henry. Another condition, however, was annexed to this propofal, viz, that, to fupprefs the herefies of the time, a council thould be held for obviating the calamities which threatened the Chritian religion. Thefe propofals would have met with a more ready acceptance from James, had not his clergy, at this time, been difgutted with Charles, for allowing too great a latitude to the Proteftants of Germany. James, in his anfwer, returned the emperor his acknowledgments in the moft polite terms, for the Splendid alliances he had offered. He mentioned the propofal of the council as being a meafure rather to be wiflsed for than expected ; becaule it ought to be free and holy, and upon the model of the firt councils; its merabers confifting of the moft charilable, quiet, and difinterefted part of the clergy. Ie faid, that if fuch a council could be obtained, he would willingly fend ecclefiaftics to it ; but if not, that every prince ought to reform the errors of doctrine, and the faults' of the clergy, within his own dominions. He bewailed the obflinatc conduct of his uncle in his divorce and marriage; and offered his beft offices for effecting a reconciliation between him and the emperor, withing that all the princes of Chriftendom would unite their arms againft their common enemy the Turks. He linted, very juftly, that his Imperial majefty had offered more than he could perform ; becaufe his coufin, Mary of England, was not at his difpofal. The ambaffador replied, that his mafter, if perfuafion failed, would compel Henry by force of arms to refign her. James anfwered this ridiculous declaration by oblerving, that the emperor then would be guilty of a breach of all laws both divine and human; that it would be im. politic to give a preference to any of the three princeffes, all of them being fo illuitrious and deferving; but, to thow how much he valued an alliance with his Imperial majefty, he would become a fuppliant to that prince for his niece, daughter to Chriftiern king of Denmark, to become his bride. The ambaffador's anfwer to this unexpected requeft was, that the was already betrothed to the count palatine, and that before that time the marriage was probably completed.

But whether the Imperial ambaffador had any right to offer the Englifh princefs or not, it is agreed by moil hi. ftorians, that James was offered either Mary or Elizabeth by their father Henry himfelf. To Mary of Bourton, the danghter of the duke of Vcndofme, he is faid to
have been contracted; but for fome reafun all thefe Scothats. matches were broken off; and the king at laft went to $\rightarrow$, France, where he married Magdalen the eldef daugh- He marics ter of Francis. The nuptials were celebrated at Paris the king of in the year 1537, with great magnificence; and among France's other things ferved up .hy way of deffert at the marriage. daughter, feaft, were a number of covered cups filled with pieces An. 1537 of gold and gold duft, the native produce of Scotland, which James diftributed among the guefls. This gold was found in the mines of Crawford-moor, which were then worked by the Germans. In the beginning of May, the royal pair embarked for Leith, under convoy of four large ihips of war, and landed on the 28 th of the fame month. The joy of the Scots was inex-who dies preflible, but it was of fhort continuance; for the fuon after. young queen died of a fever on the 22d of July the fame year.

King James did not long remain a widower; for the fame year he fent Beaton abbot of Arbroath, to negociate his fecond marriage with a French lady, Mary of ${ }^{479}$. Guife, duchefs-dowager of Longueville. In this he velled by was rivalled by his uncle Henry VIII. but not beforehs uncle James had been contracted to her. But this was no- in a fecond thing to Henry; for he not only infifted on having this marriage. lady for his wife, but threw out fome menaces againft Francis, becaufe he would not comply with this unjuftifiable requeft. In Januavy $153^{8}$, fhe was married to James, and efcorted to Scotiand by the admiral of France with a confiderable fquadron; as both James and Francis were fufpicious that Henry would make fome attempt to intercept the royal bride. But nothing of this kind happened, and fhe landed fafely at Fifenefs; whence fhe was conducted to the king at St Andresw's.

But while James appeared thus to be giving himfelf 480 But while James appeared thus to be giving himfelf Cruel exe-
up to the pleafurcs of love, he was in other refpects ution of fhowing himfelf a bloody tyrant. Some differences fub- the heir of filled between the families of Gordon and Forbes in the of Forber, north. The heir of the houfe laft mentioned had been educated in a loofe diffipated manner, and aflociated with a worthlefs fellow named Strahan. Having refufed this favourite fomething be had aiked, the latter attached himelf to Gordon earl of Huntly, who, it is faid, affifted him in forming a charge of treafon againit Forbes. He was accufed of intending to reftore the Douglafes to their forfeited eftates and honours ; which improbable ftory being fupported by fome venal evidences, the unhappy young man was condemned and executed as a traitor. The king could not but fee the injuftice of this execution; and, in order to make fome compenfation for it, banifhed Stralaan. The following execution, which happened a few days after, was much more inhuman, infomuch that it would have fained the annals even of the moft defpotic tyrant. The earl of Angus, finding that he could not regain the favour of the king, had recourfe to the method ufual in thofe days, viz. the committing of depredations on the bor- $4^{87}$ ders. This crime was fulficient with James to occafion and of the the death of his innocent fifter, the dowager-lady of lowager Glammis. She had been addreffed by one Lyon, whom tady of the had rejected in favour of a gentleman of the name of Campleill. Lyen, exafperated at this repulfe, found means of admittance to James, whom he filled with the greatell terrors on account of the practices of the family of Angus; and at lait charged the lady, her hufband,

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Sectand. and an old prieft, with a deign of poifoning the king in order to reitore Angus. The parties were all remark. able for their $\quad$ quiet and innocent lives; but even this circumltance was by their diabolical accufer turned to their prejudice, by reprefenting it as the effeet of cumning or caution. In this reign an accufation of trealon was always followed by condemiation. The evidence againft the lady, however, appeared fo abfurd and contradictory, that fome of the judges were for dropping the profecution, and others for recommending her cafe to the king : but the majority prevailed to have it deternined by a jury, who brcught her in guilty; and the was condemned to be burnt alive on the Cafte-hill of Edinburgh, The defence made by her would have done honour to the ableft orator, and undeniably proved her innocence ; but though it was reported to James, it was fo far from mitigating her fentence, that it was ag-
$4^{82}$ Death of her hufband. gravated by her huband being obliged to behold her execution. The unhappy hufband himfelf endeavoured to make his way over the caflle wall of Edinburgh; but the rope proving too fhort, he was dafhed in pieces: and Lord Gtammis her fon, though but a child, was imprifoned during the remainder of this reign. The old prieft, though put to the torture, confeffed nothing, and was frees. Lyon, like the other accufer already mentioned, was banihed.
The king king's confcience, or whether his brain had been deranged by the difractions of the different parties, is unknown; but it is certain, that, in the year 1540, he began to live retired: his palace appeared like the cloiflered retreat of monks; his fleep was haunted by the nooft frightful dreams, which he coniltrued into apparitions; and the body of Sir James Hamilton, whofe execution has already been mentioned, feemed continually prefeated to his eyes. Perhaps the lofs of tis two fons, who died on the fame day that Sir James was exccuted, might have contributed to bring this man more remarkabiy to his remembrance. No doubt, it added to the gloom of his mind; and he now faw his court abandoned by almoft all his nobility.

At laft James was in fone degree roufed from his inaction, by the preparations made againt him by his uncle Henry VIII. of Ergland. Some differences had already taken place; to accommodate wisich, Henry had defired a conference with James at York. But this the latter, by the advice of his parliament, had declined. The confequence was a rupture between the two courts, and the Englifh had taken 20 of the Scots trading veffels. Henry threatened to revive the antiquated clainn of the Eugliih fuperiority over Scolland, and had given orders for a formidable invation of the Scotch borders. He complained that James had ufurped his title of Defender of the Faith, to which he had added the word Chriflian, implying that Henry was an infidel : but the kings of Scotland had, fome time befors, been complimented by the papal fee with that title. James, on the other hand, turned his attention towards Ireland, the north of which was peopled with inkabitants who owned no fovereign but the king of Scotland, and who of-
that he had a preferable clain to at leaft one half of that Scotisad. illand, which had been peopled by the fubjects of Scntland. Though the Scotch hittorians of this reign take very little notice of this incident, yet James appears to have been very tenacious of his title; and that there was a great intercourle carried on between the fubjects of Scotland and the northern Lrilh, who unanimoufly acknowledged James for their natural fovereign. Indeed, this was the only ground of quarrel that the king, with the Icaft fhadow of jultice, could allege againit Henry.

His parliament being met, mony public-fpirited ants $\mathrm{An}^{48}$ ac of were pafted; and before the aifembly was diffolved, indemnity the members renewed the ats againf leafing -making; for crimes by which is meant the nifreperefenting of the king to his commenitted nobles, or the nobles to their king : and James, to dif-king's हimifs them in good bumour, paffed an act of fice grace nority. for all crimes committed in his minority; the earl of Angus, and Sir George and Sir Archibald Douglas, being excepted.
Henry, after cutting off the head of his wize Catharine Horard, marricd and divorced the princets Anne of Clevcs, and found himfelf either deferted or diftrufted by all the pinces on the coninent, Proteflant as well as Catholic., James and his clergy relied greatly on this public odium incurred by Henry ; but the emperor having again quarrelled with Francis, left 49 Henry, whiofe dotuinions they had threatened jointly to Prepererinvade, at liberty to continue tis preparations againations of the Scots. Henry firt ordered his flect, then the moft Heury. formidable of any in the world, to make frell defcents upon Scotland. At the fame time, he appointed a very confiderable army to rendezvois upon the borders, under the command of Sir Robert Bowes, one of his wardens, the earl of Angus, and his two brothers Sir George and Sir Archibald Douglas. James was every day expecting fupplies of money, arms, and other neceflaiies from Francis; but thefe not arriving, he reallembled his parliament on the $14^{\text {th }}$ of March, which gratifed him in all his demands. Many excellent regulations wete made for the internal government, peace, and fecurity of the kingdom, and againf the exportation of money inftead of meichandife. Acts were pafled for fortifying and embellifhing the town of Edinburgh, and for better fupplying the fubjects with wine and ail the other neceeffaries of life. The royal revenue was increafed by many additional cffates ; and there was completed one of the belt plans for a national militia that perhaps ever appeared. As yet, excepting in the difappointment which Henry met with from lis repleew in not meeting him at York, he had no grounds for commencing hoftilitics. But it is liere proper to obferve, Desh $^{49}$ that tlie queen-mother was then dead ; and confequent- the wiect ly the connestion hetween James and Henry was weak-moturc. ened. Whatever hee pivivate clarafier might be, the was certainly a happy intrument of preventing blondthed between the two kinguoms. She was buiied wih roval honours at Perth.
James, to all appearance, was at this tine in a moft defirable fituation. His donain, by forfeciures and otherwife, far exceeded that of any of his predcceffors. He could cormand the purfes of his clergy; he had large fums of ready moncy in his exchequive; his forts were well flored and fortified; and the was now daily receiving remittances of money, arms, and anumurition

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scotland. from France. All this happinefs, howeve:, was only apparent ; for the affections of his nobility, ard the wiler part of his fubjects, were now alienated from him more than ever, by his exceflive attachment to bigotry and periecution.

He had nominated the earl of Huntly to command his army on the borders, confitting of 10,000 men ; and his lieutenant-general was Sir Walter Lindfay of Torphichen, who had feen a great deal of foreign fervice, and was efteemed an excellent officer. Huntly acquitted himfelf admirably in his commiffion; and was fo well ferved by his fpies, as to have certain intelligence that the Englifh in:ended to furprife and burn Jedburgh and Kelfo. The Englifh army under Sir Robert Bowes and the Douglafes, with other northern Englithmen, continued ftill on the borders ; and one of the refolutions which the Scotch nobility and gentry had formed, was, not to attack them on their orn ground, nor to act offenfively, unlefs their enemies invaded Scotland. Huntly being informed that the Englih had advanced, on the $24^{\text {th }}$ of Auguft, to a place called Haldanrig, and that they had deftroyed great part of the Scotch and debateable lands, refolved to engage them: and the Englih were aftonifhed, when at daybreak they faw the Scotch army drawn up in order of battle. Neither party could now retreat without fighting; and Torphichen, who led the van, confifting of 2000 of the beft troops of Scotland, charged the Englihh fo furioully, that Huntly gained a complete and an eafy victory. Above 200 of the Englith were killed, and 600 taken prifoners; among whom were their general Sir Robert Borres, Sir Witliam Moubray, and about 60 of the moft diflinguifhed northern barons; the earl of Angus efcaping by the fwiftnefs of his horfe. The lofs of the Scots was inconfiderable.

In the mean time, the duke of Norfolk having raifed a great army, had orders to march north*ards, and to diftribute a manifefto, complaining of James for having dilappointed Henry in the interview at York, and reviving the ridiculous claim of his own and his anceftors fuperiority over the kingdom of Scotland. It was plain, from the words of this manifefto, that Henry was fill placable towards James; and that he would eafily have dropt that claim, if his nephew would make any perfonal advances towards a reconciliation.

The condition of James was now deplorable. The few faithful counfellors whom he had about him, fuch as Kirkaldy of Grange, who was then lord treafurer, plainly intimated, that he could have no dependence on his nobles, as he was devoted to the clergy ; and James,
fometimes, in a fit of diftraction, would draw his dag. ger on the cardinal and other ecclefiaftics when they came to him with freth propofitions of murder and profcriptions, and drive them out of his prefience. But he had no conflancy of mind; and he certainly put into his pocket a bloody froll that had been brought him by bis priefts, beginning with the earl of Arran, the firt fubject of the kingdom. In one of his cooler moments, he appointed the lord Erkine, and fome o. thers of his nobility, to make a frelh attempt to gain time ; and Henry even condeficended to order the duke of Norfolk (who was then advanced as far as York), the lord privy feal, the bifhop of Durham, and ohliers, to treat with him. The conferences were thort and unfucceffsul. The duke bitterly complaned, that the

Scots fought only to amufe him till the feafon for action was orer. In fhort, he confidered both them and l.earmouth, who was ordered to attend him, as fo many fipies, and treated them accordingly. It was the 21 it The duke of Oetober before he entered the eaftern horders of Scot- ot Nortolk land. According to the Scotch hiftorians, his army land with confifted of 40,000 men; but the Englifh have fised it formidable at 20,000 .
army:
James affected to complain of this invafion as being unprovolied; but he loft no time in preparing to repel the danger. The fituation of his nobility, who were preffed by a foreign invafion on the one hand, and domeitic tyrants on the other, induced them to hold frequent confultations; and in one of them, they refolved to renew the fcene that had been acted at Lawder bridge under James IlI. by langing all his grandfon's evil counlellurs. The Scots hitorians fay, that this 403 refolution was not executed, becaufe the nobility could agoint not agree about the victims that were to be facrificed; James's fao and that the king, who was encamped with his army vourites. at Falla-moor, having intelligence of their confultation, removed haltily to Edinburgh; from which he fent orders for his army to advance, and give battle to the duke of Norfolk, who appears not as yet to have entered the Scotch borders. The anfwer of the nobility was, that they were determined not to attack the duke on Engligh ground; but that if he invaded Scotland, they knew their duty. The earl of Huntly, who cammanded the van of the Scottifh army, confifting of 10,000 men, was of the fame opinion: but no fooner did Norfolk pafs the Tweed, than he haraffed the Englifh army, cut off their foraging parties, and diftrefled them in fuch a manner, that the duke agreed once more to a conference for peace; which was mana- 494 ged, on the part of the Scots, by the bilhop of Ork-lish obliged ney and Sir James Learmouth; but nothing was con- to rerreat. cluded. The Englifh general, finding it now impoffible on many accounts to profecute his invafion, repafled the Tweed; and was haraffed in his march by the earl of Huntly, who defifted from the purfuit the moment his enemies gained Englifh ground.

James, whofe army at this time amounted to above The Scots 30,000 men, continued fill at Edinburgh, from which refufe to he fent frequent meffages to order his nobility and ge-purfue. nerals to follow the duke of Norfolk into England; but thefe were difregarded. James was flattered, that now he had it in his power to be revenged for all the indignities that had been offered by England to Scotland. In this he was encouraged by the French ambaffador, and the high opinion he had of his own troops. About the beginning of November, he came to a refolution of reaffembling his army, which was dif. banded after the duke of Norfolk's retreat. This project appeared fo plaufible and fo promifing that feveral of the notility are faid to have agreed to it, particularly the lord Maxwell, the earls of Arran, Cafilis, and Glencairn, with the lords Fleming, Somerville, and Erfkine: others reprefented, but in vain, that the arms of Scotland had already gained fufficient honour, by obliging the powerful army of the Englifh, with their moft experienced general at their head, to make a fhameful retreat before a handful; that the force of Scoland was inferior to that of England; and that an honourable peace was ftill practicable. It was faid, in reply to thofe confiderations, that the flate of the quar-

Sertind. rel was nov greatly altered; that Henry had in his $\underbrace{}_{n}$ nif th d clated is mico tim of an llaving their comintry ; ta: he treated the nomility as I is valols; that the
 Jings of the deforcslefs inmaritants, Ly laying about 20 vilas-sand lowns in athes; and that no Scotclinan, who "whs : it c :"upted by Ifine:* goid, would op- p le t.e hirg's witl. Thie hat, perhips, was the chicf argument that proxailect on the lutd Naxwell, a nobleman of grest honour and courese, to ad ree to carry the war into E and by os way, pr-wilco he were at the hand of $1=.0=0$ met. It wis at 1.1 agred thitt the enit of Arran and the car :nal fhould openly ruife men, : : if they intended to enter the ellem marches, where they were to make only a feint, while the lord Maxweil w.s to make the real atiempt upon the wett. Private letters were everywhere circulated to raile thofe who were to ferve und.r the lond Maxwell; among whom were the earls of Ciffilis and Glencairn, the lords Fleming, Sumerville, Erkine, and many othar pericus of great importance. James, who never was fufpecteJ of purllanimits, wouid probably have pit himfelf at the head of this expedition, had he not been diffuaded from it by his 1 siells and minions, who reminded him of the confiltations at Fallamoor, and the other treafonable practices of the nobility. They added, tinat moit of them being corrupted by Englih gold, he could not be too much on his guard. He was at lait perfuaded to repair to the caftle of Lechma'en or Carla:erock, and there to wait the iflue of the inroad.
Lar ${ }^{4}{ }^{7}{ }^{7} \times x$ - It was probebly at this place that James was prewell i per- vailed on to come to the fatal re rolution of appointing
feded in fided in the commard by Oiver Sin. e.air. one Oliser Sindir, a fon of the houfe of Ralin, and a favourite $n \mathrm{H}_{\mathrm{i}} \mathrm{O}_{2}$ at const, to comma.d the army in chief; and his commilim was made out accordil gly. On the 23 d of Norem'ser, the Scots bag an their march at nit ight; and having psifd the E.R, all the adjacer: whlages were feen in flames by the bre $k$ of day. Sir Thomas Wharton, the En glith warden of thute marelies, the batiard Dacres, an Muligrave, hatily raifed a fers troops, the whole not excceuing 500 men, and drew thene u? on an alvantageous groe d; when Sinclair, ordering the royal banner to be diplpyed, and being mounted on the flualdes of two tall men, produced aed read h's comm:fiten. It is impofible to imagine the contlermation into which the sonts were thrown on this occafion; and their leaders feting the exmmple, thie whole army declared accordina to the Scotch athors), that they would rather furrender them'elves pefoners to the En !ith, than ful mit to be commanded by fuch a veneral. In in inftant, all order it the Scotch army was o:crtulned; horle and foot, foldirs and foullins, woblenco and peathts, were intermugled. It w:s eafy for the Englth general to perceive this confufion, ind pethaps to gue's at its car s. A hanired of li likht-k rfe hat pened to ad-
 who fireni.eed 11 mblies pringers; and the re tof





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however, no more than 800 common foldiers haveng bee:
made paition als. The clicit of the prifoners were the earis made piliuitas. The clici of the prifoners were the earls of Call is a.d Glencair , the lurds Mi xwell, I/citi s, Som rvi le, Oiplant, and Griy, with above $2-0$ getliemen.

James was then at Carlaverock, which is about 12 miles dittunt from the place of action, deprolited is lis fpirit, and ansions about the ever: of the expeditios, which is to this day called the Ruard of Sotway $n$, f. W en the news reached him, and he lamed that the earl of Asran and the cardinal were returned to Edinburgh, he was feized with an additional dei cli-n of a ${ }^{499} \mathrm{~V}$. mind, which brought him to his grave. In fuch a itu-c oit ation every cruel action of his former life rounded ith, ith his confcience; and he at latt turk imto a culcin mic.i. . $44^{2}$. choly, which admitted of no coafoation. From (.. laverock he removed to Falkland; and was fometimics heard to exprets himfelf as if he the ughe that the wacie body of the nobility were in a conipiracy againit his perfon and dignity. The prefence of the few attendants who were admitted into 1 is chamber, and who were the wicked inll ruments of his mifconduct, feemed to aggravate his fufferings, and he either could not or wound not take any fation nce. His death being now ineritabie, Beaton approached his bed-fide with a paper, to which he is faid to have directed the himi's hand, preterdir that it was his laft will. On tie soil of December, while Jan es was in this deplorab'e flate, a mefienger came from Linlittgow, with an account that the queen was brought to bed of a daughiter ; and the lait words he was diftinctly heard to Cay, were, "I It will end as it be $n$; the crown came by a lafs, and it will go by a lil.". He then turned his face to the wall, and in broken ejaculations prom uaced the word Stray $\mathrm{m}^{\text {s }}$, ana f me faiat expreftions alluding to the diffrace he fuffrred. In this itate he languillod for lime days; for it is certain he did not firtive the I tih.

James V. w. sfucceeded by his infant daughter Mary, r. ficeciwhofe birth we have already mentioned. James had da by Mataken no feeps for the fecurity of his kingdom, fo that ${ }^{\text {r. }}$. amLitious men had now another opportunity of throwing the public affirs into confufion. The fituation of Scolland indeed at this time was very critical. Many itul of the uobility were priloners in En_land, and thofe who fiverate of remainel at hame were factious and turoulent. The nation was diti rited by an unfuccefful war. Comotions were cialy exciled on accourt of religion, and Henry VIII. had formed a defgn of adding Scotland to his other dominions. By a tclamentary deed, wh ich Cardi al Be.tin lad forged in the name of his fovereign, he was appointed tutor to the queen and governor of the realm, at $d$ thrie of the $p$ in ipal nutlity were in med to act us bis counfellors in the adniriflation. TI c ndility and the peopic, luwever, calli; g in c ellion the autlenticity of this deed, which be could not ellab: r. the caidinal was degraded fiom the dia fity he hind fromed ; ad the eflates of the hingd ma aur wised
 they fulicd Le enlited to $t$ is dillinction, as the fec d perlen of the hi gdurn, and the searell heir, after -. Miry, thetice of.
 the dimmetion of lis pret, it the cast of Anson had b on addo cd with vigour of mind 11 ith. Put . IR

## S C O $\quad[682] \quad \mathrm{S} C . \quad 0$

Fothart. Lis wing vere civemfribel; and he did not compenfute :. this defect by any firmsefs of purpofe. He was too indolemt to gain patlizans, and too irrefolute to fr them. Slight dificulties filed him with embreratiment, and $5^{r \times 3}$ ores overpowered him. His enemise, applying themflues to the timidity of his difporsion, be:rayed him into weakneffes; and the eiteem which hii gentlenefs hand proeured him in private liic, wes ioft in the coniemy attending his pubic conduct, which was feeble, thel:ating, and inconfitent.
13e bet
tomes popular on itcrount of his anachmens to the refurmaเทํ.

The atlachment which the regent was known to profets for the reformed religion, procured him the love of the peopie; his high hirth, and the mildnefs of his sirtue, conciliated their refrect ; and from the circumfrance, that his neme was at the head of the roll of heretics which ahe clergy had prefented to the late King, a fentiment of tendermefs was mingled with his populari- ty. His conduct at fivt correfonded with the impreffons entertained in his favour. Thomas Guillame and Iol:n Rouyh, two eelebrated preachers, were invited to live in his houfe; and he permitted them to declaim openly aganiit the errors of the church of Rome. They attacked and expofed the fupremacy of the pope, the worthip of images, and the invoeation of faints. Cardinal Beaton and the prelates were exceedingly provoked, and indefatigably active in defence of the efta-
305
The peoole pernitied To read the
fcriptures in thers nothertongue. blifhed doctrines.

This public fanction offyrded to the reformation was of litule eonferquence, however, when compared with a menfure which was foon after adopted by Robert Lord Mixwell. He propored, that the liberty of reading the feriptures in the valgar tongue fhould be pernitted to the people; and that, for the future, no heretical guilt fonuld be imputed to any perfon for having them in his poffeffion, or for making ufe of them. The regent and the thrce eflates acknowledzed the propriety of this propofal. Gaviu Dunbar arehbihop of Glafgow, and chancellor of Scotland, protelled, indeed, for himfelf and for the church, that no act on this fubject fhould pafs and be effectual, till a provincial council of all the clergy of the kingdom thould eonfider and determine, whether there wras a neceffity that the peonle frould confult and fludy the feriptures in the vulgar tongue. But his proteftation being difregarded, the bill of the lord Maxwell was carried into a law, and the regent made it generally known by proclamation.

Trom this period copies of the Bible were imnorted in great numbers from England; and men, allured by an appeal fo flattering to their reafon, were prov:d to recover from the furne ignoratce in which they had been kent by an artful priefthood. To read became a common aecom litliment : and books were multiplied in every quarter, which difclofed the pride, the tyranny, and the abfurdities of the Romifh church and cos fuperlitions.
n:anry viII. The death of James Y proved very favourable to propotes to the ambitious defigns of Henry. He now propofed unnce the an m ion of t'e :wo kinedoms ty the marriage of bis kingdoas
 riage of Ed. Find. To pronce this, he releafed the noblemen who waid vi had ben thien plichers at Sloay, after laving enrith Mary gaged them on oath, not orly to concer in promioting the alliance, lit to cudeavour 'o procure him the charge and cuftolly of the young gue $n$, with the govemment of her kingdom, and the poffiefion of her calties. The
carl of Angus and his brother, who had been fifteen Smitand. years in exile, accompanied them to Seotland, and brought litters from Henry recommending them to the reltilution of their honours and eilates. The regent was inclined to favour the denaands of perfons ot fuch eminent ftation; but though the ftaies were inclined to the marriage, they refufed to permit the removal of the queen into England, and treated with contempt the idea of giving the government of Scotland and the care of the caltles to the king of England. Sir Ralph Sadler, the Englith ambalfador, excrted all his endeavours to induce the regent to comply with the requifitions of lis mafter; but all his intrigues were unfueceffiul; and Henry perceiving that he muft depart from fuch extra- He departs vagant conditions, at laft authorifed the commiffioners ${ }^{\text {tremm fume }}$ to confent to treatics of amity and marriage, on the moit favourable terms that could be procured. In confequence of thefe powers given to the commiffioners, it was agreed that a firm peace and alliance fhould take place between the two nations, and that they flould mutually defend and protect each other in cafe of an invafion. The qqueen was to remain within her own dominions till the was ten years of age ; and Henry was not to elaim any flare in the government. Six nobles, or their apparent heirs, were to be furrendered to him in fecurity for the conveyance of the youns queen into England, and for her marriage with Prince Edward, as foon as the was ten years of age. It was alfo fipulated, that though the queen fhould have iffue by Edivard, Scotlaid fhould retain not only its name, but its laws and liberties.

Thefe conditions, however advantageous to Scotland, Tlie rezert did not give entire fatisfaction. Cardinal Beaton, whoorpuifed ly had been imprifoned on pretence of treafonable fchemes, Cardinal and was now releafed from his confinement by the in- Beatun, fleence of the queen dowaser, took all opportunities of exclaiming againft the alliance, as terding to deftroy the independence of the kingdom. If pointed out to the churchmen the dangers which arofe from the prevabence of hercfy, and u-ged them to unanimity and zcal. Awakening all their fears and felfithnefs, they graated him a large fum of money with which he might gain partizons; the fri rs were directed to freach againft the treaties with England; and fanatics were inftreced to diiplay their rage in offering indignities to Sir halph Sadler.

Cardinal Beaton was not the orly an:agonif withand by fewhom the regent had to deal. The earls of Argyle, veral nobleHuntly, Bothwel, and Murray, coneurred in the oppoli- men ; tion; and having collected fome tromps, and pofiefied themfelyes of the queen's perfon, they ainmed ail the authority. They were joined by the earl of Lenox, who was led to hope that he might efpoufe the queen-dowager and obtain the regency. He was alfo inclined to oonofe the earl of Arran, from an ancient quarr! which had fubfifted between their two families; and from a claim which he had to fuperfede him, not only in the enjovment of his perfonal eflates, but in the fucceffion to the crown. The regent, alarmed at fucl: a powerful combination againit him, inclined to attend to lome advances which were made him by the qucen-dowager and eardinal. To refufe to confirm the treaties, after he liad brought them to a conclufion, was, however, a ftep fo repugnant to probity, that he could not be prevailed on to adopt it. He therefore, in a folemn man-

Scotiand ner, ratified them in the abbey church of Holyrood$\underbrace{\text { Soufe, and cofmanded the great fell of Scotland to be }}_{\text {sio }}$ affixed to them. The fance day he went to St Andress's,
but confirms :le treaties of amity and marriage with England.
$51 t$
He aban-
dons the Ene lifh inte:elt, and renounces the Pioteftant reiigion. were releafed from captivity had promifed to return prifoners to England, it now remained with them to fulfl their engagements. None of them, however, had the courage to do fo, except the earl of Cafflis; and Henry, being flruck with his punctilious fenfe of honour, difmiffed him londed with prefents.

Cardinal Beaton being thus is poffofion of power, Thequeen took meafures to fecure it. The folemnity of the cosrowned. ronation of the young queen was celebrated at Stirling. A council was chofen to direct and affit the rogent in the greater affitirs of ftate, and at the liead of this was the queen-dowager. John Hamilton, the abbot of Paifley, Who had acquired an afcendancy vier the regent, was alfo promoted to the privy $\left\{e_{n}\right]$, and $m$ de trenfurcr of the kingdom; and Cardinal Beaton, upon the renueft of the regent and the three e?lates, accepted the oftice of 515 lord ligh cliancallor.

Alter the flatteries and the lopes with which the earl of Lenox had been amufed, the cardinal had reafon to dread the utmoft warmth of his refentment. He had thercfore written to Francis 1. giving a detail of the critical fituation of uffirs in Scolland, and intrcat-
ing him to recal to France the earl of Lenoz, who was Stothod. now interctted to oppole the intluence ard operstions of the queen-dowager. But the indignation with which the treachery of the cardinal had intamed the e.ni of Lenox, precipitated him into immediate action, and de- 1516. feated the imtention of this artifice. In the hoftile cormantited fituation of his mind towards Scolland, an opportunity of by the latcommencing honilities had prefented ittif. Five flips ter. had arrived in the Clyde from France, loaded with warlike flores, and laving on board the 'as'riarch of Ve:ice, Pcter Contareni, legate from Paul 11I, with La Bruffo, and James Meliaise, amburdors from France; and $30,0=0$ ciowns, which were to be employed in itrengthening the French faction, and to be ditiributed by the queen-dowager and the cardinal. Prevailing with the cormm :nders of thefe veffels, who conceived him to be the fim friend of their monarch, he fecused this money for his own ufe, and depofited the military ftores in his calle of Dumbarton, under the care of George Stirling the $d_{-j}$ uly-governor, who at that time was entirely in his interetis.
By the fucceefful application of this wealh, the earl of Lenos called forth the full evertion of his party in levying a formidable army, with which he threatened the dettruction of the regent and the cardinal, cffering them battle in the Gieids between Leith and Edinburgh. The regent, not being in a condition to accept the Lenoxiufo challenge of lis rival, had recoufe to negociation. Cat- fers himfelf dina! Beaton and the ea:l of Huntly propofed terms to be amuef amity, and everted themfelves with fo much addicfis, f.d by his that the eari of Lenov, lofing the opportunity of chaftifing his enemies, consented to an acconmodation, and again indulyed the hope of obtaining the equetn-dowager in marriage. His rmy was difinitied, and he thre: himfelf at the feet of his miltrels, by whom he was, in appearance, fava mably received : Lat many of his friends were feduced from him under dillereat pretences; and at laft, apprehenuing lis total ruin from fome fecret enterprife, he tled to Glafgow, and fortified himelf in sis that city. The regent, collecting an amm, marched and is egainft him; and buving defeated his fricad the earl ofobliged to Glencairn in a bloody cncounter, was abie to reduce ${ }^{\text {al }}$. the place of firength in which he confided. In this ebb of his fortune, the earl of Lenox had no hope but from Engitard.

The revolution profuced in the political fate of Scotland by the ants i Cardinal Beaton, while it defcated the intrigues of Henry VIII. pointed all its frength againf the progrefs of the reformation. After abandoning his old friends, the regent, in comnection with the cardinal, was ambitious to undo all the fervices he had rendered to them. The three eflates annulled the trea- Alliance ties of anity and marriage, and emposwered commifioners withFrarc: $=$ to conclude an alliance wi h France. The regent dif concludel, clarged the two preachers Guillame and Rough, whom Proteftants he had invited to insugn the doctrines of the church. perfecuted. He drove back into England many pious perfons, whofe zeal had brought them to Scotland, to explain and advance the new oanions. He carclicd with particular refpect the legaie utom the yope liad fout to difcourage the marrisze of the youss queen with the prince of Wake, and to promife his affitance againtl the enterfrifes of Fienry VIII. He procured an act of parliament to be pafied for the perfecution of heteclics; and, on the foundation of this authority, the moft rignowis

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proceedings were concerted againft the reformed; when the arms of England, roufing the apprehenfions of the nation, gave the fulleft employment to the regent and his counlellors.

In the rage and anguifh of difappointed ambition, the earl of Lenos made an offer to affirt the views of the king of England; who, treating him as an ally, engaased, in the event of fuccels, to give him in marriage his niece the lady Margaret Douglas, and to invelt him with the regency of Scotland. To eftablifh the reformation in Scotland, to acquire the fuperiority over it to Henry VIII. and to effectuate the marriage of the prince of Wales with the queen of Scots, were the great objects of their confederacy.
Henry, though engaged in a war with France, which required all his military force, could not refift the carlieft opportunity in his power to execute his vengeance againft Scotland. Ldward Seymour, earl of Hartford, was appointed to command 10,000 men ; who were embarked at Tinmouth, on board a fleet of 200 niips, under the command of Sir John Dudley lord Lille. This army was landed without oppofition near Leith; and the earl of Hartford made it known to Sir Adam Otterburn, the provoft of Edinburgh, that his commiffion empowered him to lay the country walte and defolate, unlefs the regent fhould deliver up the young queen to the king of England. It was anfivered, that every extremity of diftrels would be endured, before the Scottifh n.tion would fubmit to fo ignominious a demand. Six thoufand horfe from Berwick, under the Iord Evers, now joined the earl of Hartford. Leith and Edinburgh, after a feeble refiftance, yielded to the Englifh commander; who abandoned them to pillage, and then fet them on fire. A cruel devaltation enfued in the furrounding villages and country, and an immenfe booty was conveyed on board the Englith flect. But, while an extreme terror was everywhere excited, the earl of Hartford re-imbarked a part of his troops, and ordered the remainder to march with expedition to the frontiers of England.

The regent, affifted by Cardinal Beaton and the earls of Huntly, Ar yle, Bothwell, and Murray, was active, in the mean time, to collect an army, and to provide for the fecurity of the kingdom. He felt, therefore, th) greatef furprife on being relieved fo unexpectedly from the moft imminent danger; and an expedition, conducted with fo little difcernment, did not advance the meafures of Henry VIII. To accomplifh the marriage of the young queen with the prince of Wales, to poffics himfelf of her perfon, or to achieve a congiuelt over Scotland, were all circumftances apparently wit in the reash of the Englifh commander: and yet, in the moment of visory, he neglected to profecute his advantages; end having irflom the animofities of the Sce tifi nation, by a difiplay of the paffions and cr aely of his m .fter, le them to recover from their difatler, and to improve : their refources.

The ent of Len x, taking the opport rity of the E. lith flo . wene to confilt wi h Henry ViII. on the deficrate file of his affirs. He revewed his engaremes's with this monarch; a id ree ived in marriage the lary M mere Dornas, with pulf lions in F. and S : $\mathrm{n}: \mathrm{I} 1$ ariad in the frith of $C$ yle, vina 18 Airs ond $\sigma=$ 'ollers, wat he might fecure the cattle of D aid athr, a.d condy inmas ia piun-
dering and devaiation. But George Stirling, to Scotland. whons the cafle was intrufted, refuled to furrender it ; and even obliged him to reimbark his troops. After engaging in a few petty incurfions and fkirmifhes, he returned to England.

In this year, Henry confented to a truce; and Scot- ${ }_{\text {a tuice }}^{524}$ land, after having fuffered the miferies of war, was fub-conduded jected to the horrors of perfecution. The regent had with Engprocured an act of parliament for the perfecution of land. the reformed; and the cardinal, to draw to himfelf an additional fplendour and power, had obtained from the pope the dignity of legate a latere. A vifitation of his own diocele appeared to him the molt proper method of commencing the propofed extirpation of herefy ; and he carried with him in his train the regent, and many perfons of diftinction, to affitt in his judicatories, and to thare in his difgrace.

In the town of Perth many perfons were accufed and $\mathrm{Ma}^{525}{ }^{525}$ cruel condernned. The molt tritling offences were regardedexccuti ns as atrocious crimes, and made the fubjects of profecution on accourt and puniffiment. Robert Lamb was hanged for affirm- of religion ing that the invocation of laints had no merit to lave. William Anderfon, James Reynold, and James Finlayfon, fuffered the fame death, for having abufed an image of St Francis, by putting horns upon his head. James Hunter, having affociated with them, was found equally guilty, and punifhed in the fame manner. Helen Sirke, having refuted, when in iabour, to invoke the affillance of the Virgin, was drowred in a pool of water. Many of the burgeffes of Perth, being fufpected of herely, were fent into banifiment ; and the lord Ruthven, the provoft, was upon the fame account dilniffed from office.

The cardinal was firenuous in perfecuting herefy in Accourt of other parts of his diocefe. But the difcontents and Mr George clamour attending the executions of men of inferior fia- "ifhat. ${ }^{\circ}$ tion were now lof in the fame of the martyrdom of George Wifthart ; a perfon who, while he was refpectable by his birth, was highly eminent from the opinion entertained of his capaciiy and endowments. The hiftorians of the Proteftant perfuafion have folien of this reformer in terms of the higheft admiration. They extol his learning as extenfive, infilt on the extreme candour of his difpofition, and afcribe to him the utmott purity of morals. But while the Arain of their panegyric is expofed to fulpicion from its excefs, they have ventured to impute to him the fpirit of prophecy; fo that we muft neceffarily receive their tulogiums with fome abatement. It may be fufficiont to affirm, that Mr Wifhart was the moit eminent preacher who had bitherto appeated in Scolland. His mind was certainly cultivated by reflection and fludy, and he was amply poffeffed of thote abilities and qualifications which aw: ken and agitale the paffions of the people. His miniftry I Ind been attended with the molt Hattering fucd ${ }^{1}$; and his courage in encountering danger gress with his reputation. The day before he was apprehended, he faid to John Kines, who attended him, " I am weary of the world. fince I porccive that men are wewry cf Giod." He li.d alteady reconciled himelf to that tenible de. th wlich awaited him. He was fourd in $t$ hovic of Cockhe $n$ of Onvifon, in Lall Lothian; who retulh to deliver him to the fervalis of the regent, t'c earl of 13vil. ell, the theriff of the coun $y$, Anguited tinat he fuculd be i tabled to lis care, and
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s:otland. promifed that no injury flould be done to him. But the authority of the regent and his counfellors obliged the earl to furrender his charge. He was conveyed to the cardinal's caftle at St Andrew's, and his trial was conducted with precipitation. The cardinal and the clergy proceeding in it without the concurrence of the fecular power, adjudged him to be burnt alive. In the circumftances of his execution there appears a deliberate and moft barburous cruelty. When led out to the ftake, he was met by priefts, who, mocking his condition, called upon him to pray to the virgin, that fle might intercede with her Son for mercy to him." Forbear to tempt me, my brethren," was his mild reply. A black coat of linen was put upon him by one executioner, and bags of gun-powder were faltened to his body by another. Some pieces of ordnance were pointed to the place of execution. He fpoke to the fpectators, intreating them to remember that he was to die for the true gofpel of Chrift. Fire was communicated to the faggots. From a balcony in a tower of his caltle, which was hung with tapeftry, the cardinal and the prelates, reclining upon rich cuihions, beheld the inhumat fcene. This infolent triumph, more than all his afflictions, affeited the magnanimity of the fufferer. He exclaimed, that the enemy, who fo proudly folaced himfelf, would perih in a few days, and be expofed igno. minioufly in the place which he now occupied.

Cardinal Beaton took a pleafure in receiving the congratulations of the clergy upon a deed, which, it was thought, would fill the enemies of the church with terror. But the indignation of the people was more excited than their fears. All ranks of men were difgulted at an exercife of porver which defpited every of Mr Wiihart, fuggefted by the general odium which attended the cardinal, was confidered by the difciples of this martyr as the effufion of a prophet; and per- haps gave occafion to the aiflifination that followed. Their complaints were attended to bv Norman Lefly, the cidelt fon of the earl of Rothes, whom the cardinal had treated with indignity, though he had profited by his fervices. He confented to be their leader. The cardinal was in the caftle of St Andrew's, which he was fortifying after the flrongeff fallion of that age. Thic confpirators, at different times, early in the morning, entered it. The gates wiese fecured; and appointing a guard, that no intimation of their proccedines might be carried to the cordinal, they difmiffed from the calle all his workmen feparately, to the mumher of 150 , and all Lis domeffics, who amounted to not fewer than 50 perfons. The eldeft fon of the earl of Arrah, whom he kept as an hoflage for his father's belaviour, was alone detained ty them. The prelate, alarmed with th iir noife, In ked fr m 1 is " *dow, and was informed that his cafle wis taken bv Norman L.fly. It was in win that he endearvured to fecure the daner of his

 into his prefere. he imblaed therir mery. Two of


 vit gant $\because$. Ife retiont the collel, in gencral
 in a mos pun . r namer with the death of Mr

Withart. He fwore, that he was actuated by 110 hopes Scetiant of his riches, no dread of his power, and no hatred to his perfon, but that he was moved to accompliih his defruction, by the obllinacy and zeal manifelled by him againt Chrilt Jefus and his holy gofpel. Waiting for no anfwer to his harangue, he thruft the cardinal three times through the body with his dagger, on the 29th of May $15 \neq 6$.

The rumour that the cafte was taken giving an alarm to the inhabitants of St Andrew's, they came in crowds to gratify their curiofity, and to offer their affillance, according to the fentiments they entertained. The adherents and dependents of the cardinal were clamorous to fee him ; and the confipiators, carrying his dead body to the very place from which he had beheld the fufferings of Mr Wifhart, expufed it to their view.

The trace, in the mean time, which had been con-Treaty of cluded with England was frequently interrupted; but peace icono memorable battles were fought. Mutual depreda-tween E gtions kept alive the holtile firit of the two hingdoms ; latid, and while the regent w.s making military preparations, sance, ind which gave the promife of important events, a treaty of peace was concluded betwern England and France, in which Francis I. took care to comprehend the Scottifl? nation. In this treaty it was flipulated by Henry, that he was not to wige war againit Scol.and, unleis he flould be provoked by new and juft cautes of holtility.

But thie murderers of Cardinal Beaton, apprehenfive of their f.fety, had difratched meficengers into England, with applications to Henry for allittuce ; a.d being joined ly more than 120 of their friends, they took the refilution of keeping the calle, and of deiending themfelves. Henry, in tuithfand ig his treaty with France, refilived to emb:ace this opportun ity of argmenting the diliurbances of Scolland. He lattened to collect troops; and the regent and his con.lellons preffed France for fupplics in men, money, military itures, and artilles.

The high plares which the cardinal occupied were proted. filled up imme iatcly upon lis death. Ioln Hamilton, , sote afe abhot of Painey, was elceted archlifhop of St Andrew 's, thr mund :and George earl of Huntly was promoted to be chan- ct , it the cello:. By thefe officers the regent was urged to proceed with vigour agair of the confpirat rs; and it w.s. a matter of the greateft insicty to him to recorer his eldet for, whom they delained in cuftoly. The cl rgy had, in the moft folemn manner, pronanced them io be acculfed; and asyead to furnith, for four monthe, a n ont illy fulfidy of (a)col. to di fr. $y$ the expetice at reducing them to olediace. The qu-en-wang $r$ and the Fruseो facion were, at the fawe inne, ibor to concur in avenging tie alttlination of a man 1 whofe counfels and fervices they 16 re fo greatly indel ted.And that no dangerous ule mis he be made of the cldeft fon of the earl of Arran, who, after his father, was the heir of the monarchy, an act of parliment was pred, excludi gh him from his birthight wile he remained in the poititite of the cnemics of his couly ry, and fublitu ing lis brothers in his pl oc, iccording to their Cuntrity. Thed at amlities of Hury fu ectad
 fendene? a + be ronaked be if ti and n........ of a free le ${ }^{2}$ e.



Scutiac: mo:aths ; but no fuccefs attended the aflailants. The fortifications :were ftrong; and a communication with the belieged was open by fea to the King of England, who fuppiied thas with arms and provifions. The garrifon received his pay, and the principal confpirafors had peafons from him. In return for his generofi.y, they engaged to promote the marriage of his fon with the young queen; to advance the reformation; and to keep in cultody the elleelt fon of the regent. Negociation ficceeded to hoftility ; and as the regent expected affirtance from France, and the confpirators had the profpect of fupport from an Englifh army, both parties were ciifpofed to gain time. A treaty was entered into, in which the regent engaged to procure from Rome an abfolution to the confiriators, and to obtain to them from the three effates an exemption from profecutions of every kind. On the part of the befieged, it was ftipulated, that when thefe corditions fhould be fulfilled, the caflie
${ }_{531}^{53}$ Death of Henry VIIt and Francis I.
An. 1547 . flould be furrendered, and the regent's fon delivered up to him. In the mean tine Heary T'III. died; and a fetv weeks afier Francis I. alfo paid the debt of nature. But the former, before his death, had recommended the profecution of the Scottith war; and Henry II. the fucceffor of Francis, was eager to flow his attention to the ancient ally of his ration. When the abfolution arrived from Rome, the confpirators refufed to confider it as valid; and an expreffion ufed by the pope, implying an abfurdity, furniihed an apclogy for their conduct. They knew that the counfellors of Edward VI. were making vigerous preparations to invade Scotland; they weie confident of their prefent ability to defend themfelves; and the adrocates for the reformation encouraged them with hopes and with flattery.

The favourers of the reformation, in the mean time, adopting the intolerant maxims of the Roman Catholics, were highly pleafed with the aflaffination of Beaton; and many of them congratulated the confpirators on what they called their godly deed and enterprife. Joln Rough, who had formerly been chaplain to the regent,

Th han Knox
begins to
difti.gu'h himfelf.

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Cantle of St Andrew's ta Ken.
5.4 Scotland invided by the Englifh. entered the cafle and joined them. At this time alfo Joln Knox began to diftinguifh himfelf, both by his fuccefs in argument and the unbounded freedom of his difcourfe; while the Roman clergy, everymhere defeated and afhamed, implored the affiftance of the regent ard his council, who affured them that the laws againnt heretics fhould be rigidly put in execution.

In the mean time the caitle of St Andrew's being invefted by a fleet of 16 fail under Admiral Strozzi from France, was obliged to capitulate. Honourable conditions were granted to the confpirators; but after being conveyed to France, they were cruelly ufed, from the hatred entertained by the Catholics againft the Ptoteftants. Many were confined in prifons; and others, among whom, fays Dr Stuart, was John Knox, were fent to the galleys. The caftle itfelf was nearly rafed to the ground.

The fame year (1547), Scotland was invaded by an Englifh army under the duke of Someret, who had been chofen protector of England during the minorily of Edward VI. The defign of this invafien was to ohlige the Scots to comply with the fcheme of Henry VIII. and conclude a mariage between Ebivard and the yor ng queen of Scotland, The Englifh amy confinte! of 18,000 men; hefides which the protenor had a itest of 60 fail, one half of which were faips of war,
and the others confifted of veffels laden with provifions Scutar ic. and military flores. On the other hand, the regent oppofed him with an army of $40,000 \mathrm{men}$. Before the commencement of hotilities, however, the duke of Somerfet addreffed a letter or manifeflo to the government, in which be prefied the marriage with fuch powerful arguments, and fo ciearly flowed the benefits which would refult from it to both nations, that the regent and his party, who were avcrfe to peace, thought proper io fuppre's it, and to circulate a report that the Englifh had come to force away the queen, and to reduce the kingdom to a ftate of dependence on him. All hofes of an accommodation being thus removed, the Eng iith army advanced to give battle to the Scots. They found the latter pofted in the molt advantageots fituation. around the villages of Muffelburgh, Inverefl, and Monckion ; fo that he could not force them to an action, at the fime time that he found himfelf in danger of having his communication with his fhips cut off, which would have totally deprived his army of the means of fubfiffence. In this dangerous fituation he had again recourfe to negociation, and offered terms fill more favourable than before. He now declared him felf ready to retire into England, and to make ample compenfation for the injuries committed by his army, if the Scottifh government would promife that the queen fhould not be contracted to a foreign prince, but flould be kept at home till the was of age to choofe a hurband for herfelf, with the confent of the nobility. Thefe conceffions increaled the confidence of the regent fo much, tha:, widhout taking adrantage of the ftrength of his fituatio:, he refolved to come to a general engagement.The protector moved towards Pinkey, a gentleman's Burtic of boufe to the eaftward of Mufflburgh; and the regent Pinkey, conceiving that he meant to take refuge in his fleet, left the flrong pofition in which he was encamped. He commanded his army to pafs the river Efk, and to approach the Engliith forces, which tere pofted on the middle of Fatide-hill. The earl of Angus led the van ; the main body marched under the regent ; and the earl of Huntly commanded in the rear. It was the regent's intention to fize the top of the hill. The lord Gray, to defert this purpofe, charged the carl of Angus, at the head of the Englifh cavalry. They were received on the puints of the Scottifh fpears, which were longer than the lances of the Englifh horfemen, and put to flight. The earl of Warwick, more fuccefful with his body of in'antry, advanced to the attack. The ordnance from the fleet affifled his operations; and a brifk fire from the Engligh artillery, which was planted on a rifing ground, contributed flill more to intimidate the Scottin foldiery:- The remaining troops under the proteqor were meving flowly, and in the beff order, to fhare in the engagement. The earl of Angus was not well fupported by the regent ard the earl of Huntly. A panic fpread through the Scottilh army. It thed in different dircetions, prefenting a feene of the greateft bavock and confufian. Few perifhed in the fight ; but the phafuit contiming in one diredion to Edinburgh, and in another to Dalkeith, with the utmolt fury, a prodigious flaughter enfued. Ihe lofs of the conquerors ${ }_{536}$ did not amount to 500 mcn ; but 10,000 foldiers perihh - defeated ed on the fide of the sanquifted. A multitude of pri- with great foners were taken ; and amorg thicic the earl of Huntly, flawhter. the loid high chancellor.

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S.othand. An idft the confernation of this decifive viatory, the duke of Somerlet had a full opportunity of effecting the marriage and unton prijestal by Henry VIII. and on the fubject of which fuch anvicty was entertained by the Eigith nation. But the cabals of his enemies threatening his deituction at home, he yielded to the necelfities of his private ambition, and marched back into England. Ile took precautions, however, to fecure an entry into Scolland, both by fea and land. A garrifon of 250 men was placed in the ifle of St ColumIa in the Eorth, and two thips of war were left as a further guard. A garrifon was alio ftationed in the caltle of Bonghty, fituated in the mouth of the Tay. Then le pafed througl the Merte and leviotdale, the leading men of thele counties repaired to him ; and taking an oath of allegiance to King Elsarl, furre dered their places of frensth. Some of thele he demoliflied, and to others he add. d new fortifications. Hume canle was getrifoned with 200 men, and intrifted to Sir Edward Dudley; and 300 foldiers mere polted with 200 pioneers, in the ciftle of Rosburgh, under the command of Sir tialph Bulmer.

The only refource of the regent now was tle hope of affitance from France. The young quecn was lodged in the catle of Dumbarton, under the care of the lords Erfkine and Livingitone ; and ambalfidurs were fent to Henry II. of France, acçuanting him with the difatter at Pinkey, and implozing his altitance. The regent had fought permition from the prutector to treat of peace, and the earl of War vick was appoinied to whit for them at Berwick; but none were evir fent on the part of Scotland. It was not long, therefore, before hontitios recommonced by the Engitan. Lord Gray led an army into Seotland, fortified the town of Had. dington, louk the caltles of Yeiter and Daikeitih, and laid wate the Merfe, and the counties of Eaft and Miid Jothian. On the other band, in Juse $15 \frac{8}{8}$, Mot fieur de Dille, a French ot Tee of great reputition, landed at Leith with 6000 fulciers, and a formidasie train of artille:y.

In the mean time, the regent was in di:grace on ascount of the diffifer at Pinkey; and the queen-dowa cr being diffoid to funerfede his amthority, attempted to improve this circumfance to her oxn ad antage. As fle perceived that ber power and interel could be belt fupported by France, the refolved to enter in: o the flriath aliance with that king Jom. It had been propoicd that the dauphin of France Mould marry the queen of Scotland; and this propofal necw met with many partizans, the hontilities of the Engilh having loft a great number of friends to the caufe of that country. It was refolved to fend the queen immociately to France, which would remove the caufe of the pre'cnt eontentions, and her fuble quent marriage with the dauphin would in the fulleft nuanner cement the friemiflip betwixt the two nations. The French government allo entered deeply into the felierae; and in order to promote it made prefents of great value to many of the Scottif nobility. The rezent himfeif was $z^{\text {anined }}$ over by a penfion of $\mathrm{r} 2,000$ livres, and thie title of duke of Chatelherault. Monfieur de Villegagnon, whe commanded four galleys in the h: rbour of Leith, making a feint 25 if he intended to proceed intiantly to France, tacked about to the north, and, failing round the inles, received the queen at Dumbarton; whence he convey-
ed her to Franee, and delivered her to het uncien the S: :tan! princes of larraine, in the month of July 1548 .

Thele tanfactions did not put an end to the military operations. The fies of Hiddington had bees undertake as foon as il. French ausilarics arrived, and was now conduatd witin vigour. T'o reinforce the garrifon, ${ }^{1}$ joo horle advanced trum Eurwick; but an ambufcade being laid for twem, they were intercepted, and almun totally deftroved. Ano her boly of Englife the Eng troups, howerer, which ampunted only to 300 perions, ${ }^{1 \text { ifh meet }}$ was more fuccefful. Eluding the viri! me of the Scots rail checkise and the Fiensh, they were able to enter LIaddingtan, and to fupply the beiieged with ammumion and pro:ifionc. The lord Seymour, high-adniral of England, made a defcent upoa Fife with 1200 men , and fome pieces of artillery; but was driven back to his thips with great floughter by lames Stuart, natural brother to the young queen, who oppofed hims at the licad of the militia of the county. $\Lambda$ fecond defcent was made by him at Montrofe; but being equally unfucceffful there, he was obliged to leave Scotland without performing any important or memorable achicsement.

Having collected at army of 17,000 men, and adding to it 3000 German Protefiants, the proiestor put it under the direction of the eall of Slerewfbury. On the approach of the Engliih, Defie, though he had been reinforced with 15,000 Scots, thought it more prudent to restrat than to l.azard a battle. He raifed the fiege of Haddington, and marched to Edinburgh. The earl Quarrels of Shrewhary did not follow him to force an engage-ber wesn ment; jealcufies had arilon betwcen the Scots and the ${ }^{\text {the Srots }}$ French. The infolence and vanity of the latier, en- and Frenchs courared by their fuperior faill in inilitary affairs, had offended the quick and impatient fyinit of the former. The fretrulnels of the Scots was atgmented by the calomities infeparable fiom war; and alter the conveyance of the yyung queen to France, the efficacious and pecuiliar advantage conferred on that kingdom by this tranfaction was iuily underftood, :and appeared to them to be bighly dicgracetul and impolitic. In this itate of their winds, Defie did not find at Edinburgh the reception which be expected. The quartering of his foldiers produced difputce, which ended in an iniurreation of the inhabitants. The Freach fired upon the citizens. Several per'ons of ditinction fenl, and among thefe were the provort of Edinburgh and his fon. The natiomal di:contents and inquietudes were driven, by this event, to the mof dangerons extremily; and Duik, who was a man of a bility, thought of giving employment to his tenope, and of flattering the people by the fplendur: of fome matial exploit.

The earl of Shrev. bury, afier fupplying Liadding. Unfuccefiston wi b troops, provifions, and military Itorcs, retied ful attemp with his army inio England. Its garrifon, in the cn-on Hadi y ment of fecurity, aid unfufpicious of danger, might dingtom be furprifed and overpowered. Marching in the night, Defe reached this import ant poft; and de lroying a fort of obfervation, prepared to form the main gates of thie ci: $y$, when the garrifon took the alar:n. A French deferter pointing a double carnon againt the thicheft ranks of the affilants, the fhot was incredibly deftructise. and threw them into confufion. In the height of their confternation, a vigorous fally was niade by the befiegcd. Deffe renewed the affault in the morning, and was again difcomfted. He now turned his arms

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2an agnion Broughty cafte; and, though ....alis to redsce it, lee recy ed the neigitboring tora of D wime, Is. i 's lad … len inta the ponf: hion of the enemy. H ime c 1!e was rutaken by Iratagem. D. lie entered Jed$b r_{\text {a }}$, , and $f$ t it ganion to the fio.d. Encouragd Ly ilis fuce i, he I y ged i: Eng ith bonle sin citferent incurfions, and obt.i fith feveral petty victories. Lsiti, whic's from a limall will: of had now grown into a town, wac futified by him; and the itiand of lnchkei h, nearly oppofite to that harbour, being occupied by Endlifh troups, he undertook to expel them, and ma e them prifoners after a brifk encounter.

His activity and ralour could not, however, compofe the difcontents of the Scottifh nation; and the queen-dowager having written to Henry I1. to recal him, he was fucceeded in his command by MIonfieur de Thermes, who was accompanied into Scotland by MIonluc bithop of Valence, a perion highly eiteemed for his addrefs and a'bility. This ecclefinftic was intended to fupply the lois of Cardimal Beaton, and to difcharge the office of 10.1 hi h chancellor of Scotland. But the jealoufies of the nation increnfing, and the queen-dowager herfelf ioffectitg his ambition and turbulence, he did not at: Air to this dignity, and foon returned to his own country.
Baver "De Thermes brought with him from France a reinforcement of 1200 foot, 2000 horfe, and 100 men-atarms. He erected a fort at Aberlady, to dilitefs the garrifon of Ha dington, and to intercept its fupplies of provifions. At Coldungham he cut in pieces a troop of Sp oniards in the Englifh pay. Faft-caftle was regained by furprift. Difractions in the Englifh court did not permit the protector to act vigoroufly in the war. The earl of Warwick was diverted from marching an army into Scotland. An in,fectious diftemper had broken out in the sartion at Haddington; and an apprehenfion F:evailed, that it could not hold out for a confiderable time agsin?t the Scots. The earl of Rutland, therefore, with a body of troops, entered the town; and after fetting it on fire, conobeted the garrilon and artillery to Beiwick. The regent now in poffefion of Haddington, was fulicitous to recover the other places which were yet in the power of the Englifh. De Thermes 1 id fiege to Broughty cafte, and took it. He then befieged Lavder; and the garrifon vas about to furrender at difretion, when the ners arrived that a peace was concluded between Fraice, England, and Scot1.. 1.

By this treaty the king of Trance obtained the reftitution of Boulngne and its dependencies, which had been takien from him by the king of England, and for which he p.id 400,000 crosns. No oppofition was to he given to the marriage of the queen of Scotland with thed $\because n^{2}$ in : the forreffis of Lawder and Douglas were to ic reftored to the Scots, and the Englifh W re to dal:a + o cettes of Toxburgh and Eymouth. After thet liike in of thefearticles, the queen-dowager cn and wil. Lcon Strozzi for France, attended by
many of the malility. Having arrived these, the comm nicated to the king her defign of a siming the government of scothad, ad he fromifed to affit her to the utmoit of hi: power. But the jeal ufy which prevailed betweenti. Conts and Ficalh re: dered the acc mplifimet of thia defery very dillinht. To remove th. regent 'y a a as in is or 1 ight. Hogether endanger
the :- me; but it right be poffible to perfuade him Scolland.
 trigion were ionin mixcly commenced; and thiced the
 his : it mpeliculita of the refomed. The peace was fourctly pruciancel, when he provoked the rublic refentment dy an act oi fanguinary infolence. Adam Adam $\mathrm{Was}^{547}$ Walisece a man of fimple manners, but of great zealize fiafiers for the refirmation, was accufed of herely, and brought on accurt to trial in the church of the Elack Friars at Edinburgh. In the prefence of the regent, the ealls of Angus, Huntly, Glencairn, and other perfons of rank, be was charged with preaching without any authority of law, with baptizing one of his own children, and with denying the doctrine of purgatory ; and it was frenuoully objected to him, that he accounted prayers to the faints and the dead an ufcle's fuperitition, that he had pronounced the mals an idolatrous fervice, and that he had atfirmed that the bread and wine in the facrament of the altar, after the words of the confecration, do not change their nature, but continue to be bread and wine. Thefe of fences were etteemed too terrible to admit of any par-don.- The earl of Glencairn alone protefted againft his punifhment. The pious fufferer bore with refignation the contumelious infults of the clergy; and by his courage and patience at the itake gave a fanction to the opinions which he had embraced.

Other acts of atrocity and violence flaincd the sobmi- 0 th: ${ }^{5+5}$ inniftration of the regent. In his own palace, William fances of Cricliton, a man of family and reputation, was afiafina- the regent's ted by the lord Semple. No attempt was made to nd jusifpunifh the murderer. His daughter was the concubine :me. of the archbillop of St Andrew's, and her tears and intreaties were more powerful than juftice. John Mlelvil, a perion refpectable by his birth and fortune, had written to an Englifh gentleman, recommending to lis care a friend who at that time was a captive in Ensland. This letter contained no improper information in matters of ilate, and no fufpicion of any crime againil Melvil could be inferred from it. Yet the regent brought him to trial on a charge of high trealon; and, for an act of humanity and friendhlip, he was cordemned to lofe his head. The forfeited entate of Melvil, was given to David the youngeft fon of the regent.

Amidit the pleafures and amuiements of the French Schenes of court, the queen-dowager was not inattentive to the twe quicenfeheme of ambition which fhe had projected. The earls wramer to of Hundy and Sutherland, Marichal atd Caffilis, with the lord Naxwell, and other perfons of eminence who had accompanied her to France, were gained over to her intercils. Robert Carnegie of Kinnaird, David Panter billop of Rofs, and Gavin Hamilion conmendator of Kilwinning, being alfo at this time in that kingdom, and laving m.oft weight with the regent, were tieated with a roott punctitious refpect. Henry declared to them his earneft wifh that the queen-dowager might acquire the government of Scotland. In cife the regent flould confent to this meature. he exprefled a firm intertion thal no detriment fhould liappen to his conle. quence and affairs; and he defired them to inform him, that he had already confirmed his tille of cuke of Liate herarlt, lad dwanced his fon to be c. plain of the Scots ge darmes in F-nce, ard was ready lo beflow other marks of fayour on his f.mily and re'tions. (in this Lu.finef, and with this metlage, Mr Carnegie 11 -s
dilpatched

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Scotland. difpatched to Scotland; and a few days after, he was followed by the bifhop of Rofs. The bilhop who was a man of eloquence and authority, obtained, though with great dificulty, a promife from the regent to refign his ligh othice; and for this fervice he received, as a recom-
penfe, an abbey in Poitou.
$55^{2}$
She returns
She return
to Scotland.
An. $\mathrm{X} ; \mathrm{j}$. return to Scotland, and in her way thither made ufe of a fafe-conduct obtained from Edward VI. by the king of France. The Englith monarch, however, had not yet forgotten the beautiful queen of Scotland; and did not fail to urge his fuperiority of claim to her over the dauphin. The queen-dowager did not ferioully enter upon the bufinefs; but only in general terms complained of the hottilities committed by the Englifh; and two days after this converfation, fhe proceeded towards Scotland, and was conducted by the earl of Bothwel, lord Hume, and fome other noblemen, to Edinburgh, amidat the acclamations of the people. She had not long returned to the capital, when the bad conduct of the regent afforded her an opportunity of exerting her intluence and addrefs to the advantage of her project. The regent having propofed a judicial circuit through the kingdom, under pretence of repreffing crimes and diforders, molefted the people by plunder and rapine. Great fines were levied for offences pretended as well as real ; and the Proteftants in particular feemed to be the objects of his difpleafure and feverity. In his progrefs he was accompanied by the queen-dowager ; and as the affected to behave in a manner directly oppofite, the moft difagreeable comparifons were made between her and the regent. The bifhop of Rofs, to whom he had promifed to refign his office, did not fail to put him in mind of his engagemenis; but he had now altered his mind, and wifhed ftill to continue in power. His refolution, however, failed him on the firlt intimation of a pariamentary inquiry into the errors of his adminiftration. An agreement with the queen-dowager then took place; and it was ftipulated, that he fhould fucceed to the throne upon the death of the queen without iffue; that his fon fhould enjoy the command of the gendarmes ; that no inquiry fhould be made into his expenditure of the royal treafures; that no fcrutiny into his government fhould take place; and that he fhould enjoy in the moft ample manner his duchy and his penfion. Thefe articles were ratified at an affembly of parliament, and the queen-dowager was formally invefted with the regency.

Mary of Lorraine, the new regent, though the had with great difficulty attained the fummit of her wifhes, She renders vernment than thofe of intrigue. She was fcarcely fettled herfelf un- in her new office when fhe rendered herfelf unpopular in popular. two refpects; one by her too great attachment to France, and the other by her perfecution of the reformed religion. She was entirely guided by the councils of her brothers the duke of Guife and the cardinal of Lorraine; and paid by far too much attention to M. d'Oyfel the French ambafiador, whom they recommended to her as an able and faithful minifter. Several high of-

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fices were filled with Frenchmen, which excited in the S otlar.d, ligheft degree the refentment of the Scottifh nobility; and the commonalty were inftantly prejudiced assainft her by the partiality which the thowed to the Papils. At firt, however, flie enacted many falutary laws; and while the made a progrelis through the fuuthern provinces of the kingdom to hold jatliciary courts, the endeavoured to introduce order and law into the wettern counties and ifles; firft by means of the earl of Huntly, and afterwards of the earls of Argyle and Athole, to whom the graated commifions for this purpole with cffectual powers. In another improvement, which the Atempts queen regent attempted by the advice of her French in vain to council, fhe found herlelt oppofed by her own people. eftablifh a It was propofed that the poffeflions of every propietor arriyng of land in the kingdom fhould be valued aind entered in regilters; and that a pruportional payment floould be made by each. The application of this fund was to maintain a regular and itanding body of troops. This guard or army, it was urged, being at all times in readinefs to march againit an enemy, would protect effectu. ally the frontiers; and there would no longer be any neceffity for the nobles to be continually in motion ox every rumour of hoftility or incurfion from Englifh invaders. No art, however, or argument, could recommend thefe meafures. A perpetual tax and a itanding army were conceived to be the genuine characteriftics of defpotifm. All ranks of men confidered themfelves infulted and abufed; and 300 tenants of the crown affembling at Edinburgh, and giving way to their indignation, fent their remonflrances to the queen-regent in fuch ftrong and expreffive language, as induced he: to abandon the fcheme. Yet ftill the attempt which fhe had made left an impreffion in the minds of the people. They fufpected her to be a fecret enemy to their government and liberties; and they were convinced that the king of France was engaging her in refinements and artifices, that he might reduce Scotland to a province of France.

While an alarm about their civil rights was fpread- John Knos ing itfelf among the people, the Proteftants were rifing eroourages daily in their fpirit and in their hepes. John Knox (P), the reform. whofe courage had been confirmed by misfortunes, and erso whofe talents had improved by exercife, was at this time making a progrefs through Scotland. The characteriftic peculiarities of Popery were the favourite topics of his declamation and cenfure. He treated the mafs, is particular, with the moft fovereign contempt, reprefenting it as a remnant of idolatry. Many of the nobility and gentry afforded him countenance and protection. They invited him to preach at their houfes, and they partook with him in the ordinances of religion after the reformed method. Religious focieties and affemblies were publicly held, in dcfiance of the Papits; and celebrated preachers were courted with affiduity and bribes to refide and officiate in particular diffricts and towns. The clergy cited Knox to appear before them at Edinburgh, in the church of the Black-friars. On the appointed dayi he prefented himiclf, with a numerous attendance of gentlemen, who were determined to exert 4 S themfelves
(P) When he was fent to France (fays Dr Stuart), with the confpirators againft Cardinal Beaton, he was confined to the galleys; but had obtained his liberty in the latter end of the year 1549 .

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Scolland. themfelfes in his behalf. The priefthood did not choofe to proceed in his profecution; and Knov, encouraged by this fymptom of their fear, took the refolution to explain and inculcate his doctrines repeatedly and openly in the capital of Scotland. In 1556 , the earl

5ヶ6
Writes an
offentive
letter to
the queen-
tegent.
A. 1556. of Glencairn allured the earl Marifchal to hear the exhortations of this celebrated preacher; and they were fo much afferted with his reafonings and rhetoric, that they requeited him to addrefs the queen-regent upon the fubject of the reformation of religion. In compliance with this requeit, he wrote a letter in very difagreeable terms ; and the earl of Glencairn delivered it with his own hand, in the expectation that fome advantage might in this manner be obtained for the reformed. But the queen-regent was no lefs offended with the freedom of the nobleman than of the preacher; and, after perufing the paper, fhe gave it to James Beaton archbifhop of Glafgow, with an expreffion of difdain, "Here, my lord, is a pafquil."
557
Goes to Geteva, and is burnt in effigy.
$55^{3}$
Pruarets of the reformation.

Amidft thefe occupations, John Knox received an invitation to take the charge of the Englifh congregation 2t Geneva; which he accepted. The clergy called on him, in his abfence, to appear before them, condemned him to death as a heretic, and ordered him to be burned in effigy.
This injurious treatment of John Knox did not in the leaft obitruct the progrefs of the reformation. Defertions were made from Popery in every town and village;
and even many members of the church, both fecular and regular, were forward to embrace the new principles, and to atone for their palt mittakes by the moft bitter railleries againit the corruptions and the fully of the Romifh faith. The prielts were treated in all places with ridicule aod contempt. The images, crucifixes, and relics, which ferved to roufe the decaying fervours of fuperitition, ware taken from the churches, and trampled under foot. The bithops implored the affiffance of the queen-regent. Citations were given to the preachers to appear in their defence. They obeyed; but with fuch a formidable retinue, that it was with diffculty the was permitted to apologife for her conduet. James Chalmers of Gaitgirth, prefling forward from the crowd, thus addreffed her: "We vow to God, that the devices of the prelates fhall not be carried into execution. We are oppreffed to maintain them in their idlenefs. They feek to undo and murder our preachers -d us; and we are determined to fubmit no longer to this wickednefs." The multitude, applauding his fpeech, put their hands to their daggers.

A trufty meffenger was difpatched to Geneva, inviting John Knox to return to his own country. But in the infancy of their connection, the Proteftants being apprehenfive of one another, uncertain in their counfels, or being deferted by perfons upon whom they had telied, it appeared to them that they had adopted this meafure without a due preparation; and, by other difpatches, Knox was requefted to delay his journey for fome time.

To this zealous reformer their unfteadinefs was a matter of ferious afliction; and in the anfwer he tranfmitted to their letters, he rebuked them with feverity: but amidft this correction, he intreated them not to faint ulider their purpofes, from apprehenfions of danger, which, he faid, was to feparate themfelves from the favour of God, and to provoke his vengeance. To par-
licular perfons kie wrote other addreffes; and to all of Scotland. them the greatelt attention was paid. 111 1557, a formal bond of agreement, which obtained the appellation of the firft covenant, was entered into, and all the more the in ft eminent perfons who favoured the refurmation were in- An. 1557 . vited to fubfcribe it. The earls of Argyle, Glencainn, and Morton, with the lord Lorn, and John Erkine of Dun, led the way, by giving it the fanction of their names. All the fubleribers to this deed, renouncing the fuperititions and idolatry of the church of fome, promifed to apply continually their whole power and wealhh, and even to give up their lives, to forward and eltablifh the word of God. They diflinguiffied the reformed, by calling them the Congregation of Chriff; and by the opprobrious title of the Congregation of Satan, they peculiarized the favoures of Popery.

After the leaders of the reformation had fubfcribed fohr ${ }^{560}$ the firft covenant, they addrefled letters to John Knox, and Caivin urging in the tlrongelt terms his reiurn to Scotland; " vited into and that their hones of his affifance mioht not be dif. Scotland. appointed, they fent an addrefs to John Calvin, the celebrated reformer, begging him to join his commands to their intreaties. The archbifhop of St Andrew's, who perceived the rifing ftorm, was now in a difficult fituation. A powerful combination threatened ruin to the church; and he had feparated himfelf from the politics of the queen-regent. The zeal of the Roman Catholics pointed out ftrong meafures to him; and his ditpofitions were pacific. The clergy were offended with bis remifficfs and neglect of duty. The reformers detefted his loofenefs of principles, and were fhocked with thediffolute depravity of his life and converfation. He refolved to try the force of addrefs, and did not fucceed. He then refolved to be fevere, and was ftill more uniuccefsful.

The earl of Argyle was the moft powerful of the reformed leaders. To allure him from his party, the luflup of archbifhop of St Andrew's employed the agency of Sir ${ }^{\text {St An- }}$ David Hamilton. But the kindnefs he affected, and demprs in the advices he befowed, were no compliment to the un-vain to federftanding of this nobleman ; and his threats were re-dtice the garded with contempt. The reformers, inftead of lo. earl of Aro fing their courage, felt a fentiment of exultation and tri- gyle. umph; and the earl of Argyle happening to die about this time, he not only maintained the new doctrines in his laft moments, but intreated his fon to feek for honour in promoting the public preaching of the gofpel of Jefus Chrift, and in the utter ruin of fuperftition and idolatry.

It was determined by the archbifhop and the prelates, that this difappointment fhould be lucceeded by the furi- ${ }_{56 z}$ ous perfecution of the reformed. Walter Mill, a prielt, Walter had neglected to officiate at the altar; and having been Mitl exelong under the fufpicion of herefy, was carried to $\mathrm{St}_{\text {account of }}$ Andrew's, committed to prifon, and accufcd before thereligion. archbilfiop and his fuffragans. He was in extreme old age; and he had ftruggled all his life with poverty. Ile funk not, however, under his fate. To the articles of his accufation he replied with fignal recollection and fortitude. The firmnels of his mind, in the emaciated flate of his body, excited admiration. The infults of his enemies, and their contempt, ferved to dilcover his fuperiority over them. When the clergy declared him a heretic, no temporal judge could be found to condemn him to the fire. He was refpited to another day; and

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Southos. fo great fympathy prevailed for his misfortunes, that it was neceliary to allure one of the archbinhop's dometlics to fupply the piace of the civil power, and to pronounce the fentence of condannation. When brought to the flake, the reiolution of this fufferer did not forfake him. He praifed God, that he had been called to feal the truth with his life; and he conjured the people, as they would efcape eternal death, not to be overcome by the errors and the artifices of monks and prielts, abbots and
$5^{6} 3$
The Proteftant, re folve to affert their rights. bithops.
The barbarity of this execution affected the reformers with inexpreffible horror. Meafures for mutual defence were taken. The leaders of the reformation, difperfing their emiffaries to every quarter, enconraged the vehemence of the multitude. The covenant to eftablilh a new- form of religion extended far and wide. The point of the fiword, not the calm exertions of inquiry, was to decide the difputes of theology.

When the leaders of the reformation were apprifed of the ardent zeal of the people, and confidered the great number of fubfrciptions which had been collected in the different counties of the kingdom, they affembled to deliberate concerning the fleps to be purfued. It was refolved, accordingly, that a public and common fupplication of the whole body of the Proteftants fhould be prefented to the queen-regent; which, after complaining of the injuries they had fuffered, fhould require her to beltuw upon them her fupport and affiftance, and urge her to proceed in the work of a reformation. To explain their full meaning, a fchedule, containing particular demands, was at the fame time to be prefented to her fcrutiny. To Sir James Sandilands of Calder they committed the imnortant charge of their manifetto and articles of reformation; and in appointing him to this commiffion, they confulted the relpect which was due both to the government and to themfelves. His character was in the higheft e.timation. His fervices to his country were numerous; his integrity and honour were above all fufpicion; and his age and experience gave him authority and reverence.
The petition or fupplication of the Proteflants was expreffed in frong but refpefful terms. They told the queen-regent, that though they had been provoked by great injuries, they had yet, during a long period, abftained from affemoling themfelves, and from making known to her their complaints. Banifhment, confifcation of goods, and death in its moft crucl fhape, were evils with which the reformed had been afflicted; and they were fitll expofed to thefe dreadful calamities. Compelled by their fufferings, they prefumed to afk a remedy againf the tyranny of the prelates and the eflate ecclefiaftical. They had ufurped an unlimited domina tion over the minds of men. Whatever they commanded, though without any fanction from the word of God, mult be obeyed. Whatever they prohibited, though from their own authority only, it was neceffary to avoid. All arguments and remonfrances were equally fruitlefs and vain. The fire, the faggot, and the fword, were the weapons with which the church enforced and vindicated her mandates. By thefe, of late years, many of their hrethren had fallen; and upon this account they were troubled and wounded in their confciences. For conceiving themfelves to be a part of that power which God had eftablifhed in this kingdom, it was their duty to have defended them, or to have concurred with them
in an open arowal of their common religion. They szothan! now take the opportunity to make this avowal. They break a filence which may be mifinterpreted into a jultification of the cruelties of their enemies. And difdaining all farther diflimulation in matlers which concern the glory of God, their prefent happinefs, and their future falvation, they dcmand, that the original purity of the Chrittian rel:gion thall be reftured, and that the goverument thall be fo improved, as to afford to them a fecurity in their perfons, their opinions, and their property.

With this petition or fupplication of the Proteflants, Sir James Sandilands prefented their fchedule of demands, or the preliminary articles of the reformation. They were in the fipirit of their lupplication, and of the following tenor.
I. It thall be lawful to the reformed to perufe the Aricice of Scriptures in the vulgar tongue; and to employ alifo the retortheir native language in prayer publicly and in private. mation.
II. It flall be permitted to any perfon qualified by knowledge, to interpret and explain the dificult paffages in the Scriptures.
III. The election of minifters flall take place according to the rules of the primitive church; and thofe who elect hrall enquire diligently into the lives and doatrines of the perfons whom they admit to the clerical oftice.
IV. The holy facrament of baptifm fhall be celebrated in the vulgar tongue, that its inflitution and nature may be the more gencrally underftood.
V. The holy facrament of the Lord's fupper fhall likewife be adminiflered in the vulgar tongue; and in this communion, as well as in the ceremonial of baptifm, a becoming refpect flall be paid to the plain inflitution of Cbrift Jefus.
VI. The wicked and licentions lives of the bifhops and eftate ecclefiaftical fuall be reformed; and if they difcharge not the duties of truc and faithful paftors, they flall be compelled to defilt from their minititry and functions.

The queen-regent now found it neceflary to flatter the Proteftants. She aflured them by Sir James San dilands, their orator or commiffioner, that every thing The Protel-
 they could legally defire flould be granted to them ; rege to and that, is the mean time, they might, without moleflation, employ the sulgar tongue in their prajers and religious exercifes. But, upon the pretence that no encouragement might be given to tumults and riot, a.e requefted that they would hold no public affemblies in Edinburgh or Leith. The Congregation, for this name was now affumed by the Proteflants, were tranfported with thefe tender proofs of her regard; and while they fought to advance fill higher in her efteem by the inoffenfive quictnefs of their carriage, they were encouraged in the undertaking they had begun, and anxious to accomplith the work of the reformation.

Nur to the clergy, who at this time were holding a provincial council at Edinburgh, did the Congregation fcruple to communicate the articles of the intended reformation. The clergy received their demands with a florm of rage, which died away in an innocent debility. Upon recovering from their pathons, they offered to They ${ }^{567}$ fubmit the controverfy between them and the reformed thdipnitto a public difputation. The Congregation did not with the refufe this mode of trial; and defired, as their only con- kominh $4 \mathrm{~S}_{2}$ ditions,

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Scctland. ditions, that the Scriptures might be confidered as the ftandard of orthodoxy and truth, and that thofe of their brethren who were in exile and under perfecution might be permitted to affift them. Thele requefls, though highly reafonable, were not complied with; and the church would allow of no rule of right but the canon law and its own councils. Terms of reconciliation were then offered on the part of the eftate ecclefiaitical. It held out to the Protefants the liberty of praying and adminiflering the facraments in the vulgar tongue, if they would pay reverence to the mafs, acknowledge purgatory, invole the faints, and admit of petitions for the dead. To conditions fo ineffectual and abfurd the Congregation did not deign to return any anfwer.
The meeting of parliament approached. The parties in contention were agitated with anxieties, apprehenfions, and hopes. An expectation of a firm and open affiftance from the queen-regent gave courage to the reformed; and, from the parliamentary influence of their friends in the greater and the leffer baronage, they expected the molt important fervices. They drew up with eagernefs the articles which they wifhed to be paffed into a law; and as the fipirit and fenfe of their tranfactions are to be gathered in the completeft manner from the papers which were framed by themfelves, it is proper to attend to them with exactnels. Their petitions were few and explicit.

1. They could not, in confequence of principles which they had embraced from a conviction of their truth, participate in the Romifh religion. It was therefore their defire, that all the aहts of parliament, giving authority to the church to proceed againft them as heretics, fhould be abrogated; or, at leaft, that their power fhould be fufpended till the difputes which had arifen were brought to a conclufion.

I1. They did not mean that all men fhould be at liberty to profefs what religion they pleafed, without the controul of authority. They confented that all tranfgreflors in matters of faith fhould be carried before the temporal judge. But it was their wiih that the clergy fhould have the power of accufing; and they thought it conformable to juffice, that a copy of the criminal charge fhould be lodged with the party upon srial, and that a competent time fhould be allowed him to defend himelf.
III. They infifted, that every defence confiftent with law fhould be permitted to the party accufed; and that objections to witneffes, founded in truth and reafon, fhould operate in his favour.
IV. They defired that the party accufed fhould have permiffion to interpret and explain bis own opinions; and that his declaration fhould carry a greater evidence than the depofition of any witnefs; as no perfon ought to be punifhed for religion, who is not obflinate in a wicked or damnable tenet.
V. In fine, they urged, that no Proteflant fhould be condemned for berefy, without being convicted by the word of God, of the want of that faith which is neceffary to falvation.

The Congregation prefented thefe articles to the queen-regent, expecting that he would not only propofe them to the threc eftates affembled in parliament, but employ all her influence to recommend them. Eut finding therofelves difappointed, they legan to
doubt her fincerity; and they were fenifible that their Scotlard. petitions, though they thould be carried in parliament, could not pafs into a law without her confent. They therefore abilained fiom prefenting them; but as their complaints and defires were fully hnown in parliament, they ordered a folemn deciaration to be read there in their behalf, and demanded that it thould be inferted in the records of the nation. In this declaration, atter expreffing their regret at having been difappointed in their ficheme of reformation, they protefted, that no blame fhould be imputed to them for continuing in their ings religion, which they believed to be founded in the word of God ; that no danger of life, and no political pains, fhould be incurred by them, tor difregarding itatutes which fupport idolatry, and for violating rites which are of human invention; and that, if infurrections and tumults thould diffurb the realm, from the diverfity of religious opinions, and if abufes flould be corrected by violence, all the guilt, diforder, and inconvenience thence arifing, inftead ot being applied to them, fhould be afcribed to thofe folely who had refufed a timely redrels of wrongs, and who had defpifed petitions prefented with the humility of faithful fubjects, and for the purpofes of eftablifhing the commandments of God, and a moft juft and falutary reformation.

The three eftates received this formidable proteft with attention and refpect ; but the intention of inferting it in the national records was abandoned by the Congregation, upon a formal promife from the queen-regent, that all the matters in controverfy fhould ípeedily be brought by her to a fortunate iffue.

While the Proteftants were thus making the moft vigorous exertions in behalf of their fpiritual liberties, the queen regent, in order to eftablifh herfelf the more effectually, ufid every effort to promote the marriage of her daughter with the dauphin of France. In 1557, commiflioners were appointed to negociate this marriage; but while thefe negociations were going on, the court of France acted in the molt perfidious manner. At the age of 15 , after folemnly ratifying the indepen-Perfidion dence of Scotland, and the fucceffion of the crown in conduet of the houfe of Hamilton, Queen Mary was influenced by the court of the hing and her uncles the princes of Lorraine to fign France. privately three extraordinary deeds or inltruments. By the firft fhe conveyed the kingdom of Scotland to the king of France and his heirs, in default of children of her own body. By the fecond the affigned him, if fhe fhould die without children, the poffeffion of Scotland, till he fhould receive a million of pieces of gold, or be amply recompenfed for the fums expended by him in the education of the queen of Scotland in France. By the third the confirmed both thefe grants in an exprefs declaration, that they contained the pure and genuine fentiments of her mind; and that any papers which might be obtained, either before or after her marriage, by means of the Scottih parliament, fhould be invalid, and of no force or efficacy. On the $24^{\text {th }}{ }^{577}$ of April, the nuptials were celebrated; and the dau- of the phin, Francis, was allowed to affume the title of king queen of of Scotland. The French court demanded for him the Scots with crown and other enfigns of royalty belonging to Scot- - $^{\text {he }}$ dauland ; but the commiffioners had no power to comply phin of with this demand. It was then defired, that when they returned home, they flould ufe all their influence to procure the crown matimonial of Scotland for the
dauphin.

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Sootiand dauphin. Tinis alfo was refufed; the court of France was difgufted; and four of the commiffioners died, it was fuppofed of poifon, given then by the princes of Lorraine. This fubject, however, was prefled, on the return of the furviving cominiffoners, by the king of France himilelf, the queen of Scotland, and the queenregent. The Proteftants alfo joined their interclf, hoping by that means to gain over the queen and queen-
$57^{2}$.
He obtains the crown of Scotland, but under certain reftric tions.
trines might be as found as thofe of St Paul. The de. Scooland. puties urged her former kind behaviour and promifes; but the quicen-regent anfwered, that " the promifes of princes ought not to be exacted with rigour, and that they were only binding when fubfervient to their cunveniency and pleafure." To this they replied, that in fuch a cale they could not look on her as their fovereign, and muft renourice their allegiance as fubjects.

Soon after this tranlaction, the queen-regent recei-Proceed. ved the news that the reformation was eftablified in ing againft Perth. Lord Ruthveis the provoit of the city was the froteffummoned to anfwer for this innuvation; but his reply was, that he had no dominion over the minds and confciences of men. The provoft of Dundee, being ordered to apprehend an eminent preacher, named Paul Methven, lent him intelligence of the order, that he might provide for his fafety. The proclamation for oblerving Eafter was everywhere defpiled and neglected, and people exclaimed againft the mafs as an idol. New citations, in the mean time, had been given to They bethe preachers to appear at Stirling. They obeyed the come forfummons; but attended by fuch multitudes, that the midable by queen regent, dreading their power, though they were ${ }_{\text {their }}$ num.. without arms, intreated Mr Erlkine of Dun, whom they had fent before as a deputy, to ftop their march; affuring him that all proceedings againit the preachers fhould be itopped. In confcquence of this, the multitude difperfed; yet, when the day came on which the preachers thould have appeared, the queen-regent, with unparalleled folly and treachery, caufed them to be declared traitors, and proclaimed it criminal to afford them any fubfittence.

Mr Erfkine, exafperated by this ftameful conduct, haftened to the Congregation, apologifed for his conduct, and urged them to proceed to the laft extremities. At this critical period John Knox returned from John 579 Geneva, and joined the Congregation at Perth. The returns to great provocations which the Proteftants had already Scosland, received, joined to the impetuous paffions of the multitude, were now productive of the greateft diforders. Images were deftroyed, monafteries pulled down, and their wealth either leized by the mob or given to the poor. The example of Perth was followed by Cupar in Fife; and fimilar infurrections being apprehended in other places, the queen-regent determined to punifh the inhabitants of Perth in the moft exemplary manner. With this view fhe collected an army : but being oppofed with a formidable power by the Proteffants, the thought proper to conclude an agreement. The Proteftants, however, dreaded her infincerity ; and there. Second ro fore entered into a new covenant to itand by and defend venant. each other. Their fears were not groundleis. The Treachery queen-regent violated the treaty almoft as foon as it was queen-remade, and begaa to treat the Proteftants with feverity, gent. The earl of Argyle, and the prior of St Andrew's, who about this time began to take the title of Lord James Siuart, now openly headed the Proteftant party, and prepared to collect their whole ftrength. The queenregent oppofed them with what forces the had, and which indeed chietly confited of her French ausiliaries; but, being again afraid of coming to an engagement, fhe confented to a truce until commiffioners thould be fent to treat with the lords for an effectual peace. No commifioners, however, were fent on her part ; and the nubles, provoked at fuch complicated and unceafing tieacherïs'

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Scealzal. treachery, refolved to pufh maters to the utmoft extremity. The firt exploit of the reformed was the taking of the town of Perth, where the queen-regent had pla-

531 Perth taken by the Proteftarls.
$5^{5}=$
The queenregent fil s to Dunoar, and the Proteflants become mafter: of 2dinburgh. ced a Frencb garrifon. The multitude, elated with this achievement, deftroyed the palace and abbey of Scone, in fipite of all the endeavours of their leaders, even of John Knox bimfelf, to fave them. The queen-regent, apprehenfive that the Congregation would commit farther ravages to the fouthward, refolved to throw a garrifon into Stirling; but the earl of Argle and Lord James $S$ 'uart were too quick for her, and arrived there the very day after the demolition of the abbey and palace of Scone. The people, incapable of reftraint, and provoked beyond meafure by the perfidious bebaviour of the Catholic party, demolilied all the monafteries in the neighbourhood, together with the fine abbey of Cambuikenneth, fituated on the north bank of the Forth. From Stirling they went to Linlithgow, where they committed their ufual ravages; afier which, they advanced to Edinburgh. The queen-regent, alarmed at their approach, fled to Dunbar ; and the Proteltants took up their refidence in Edinburgh.

Having thus got poffefion of the capital, the Congregation affumed to themfelves the ruling porrer of the kingdom, appointed preachers in all the churches, and feized the mint, with all the infruments of coining. The queen-regent, unable to difpute the mater in the field, publilhed a manifeto, in which fhe fet forth their feditious behaviour, commanding them to leave Edinburgi, within fix hours, and e joining her fubjects to avoid their fociety under the penalties of treafon. The Congregation having already loft fomewhat of their popularity by their violent proceedings, were now incapable of contending with govermment. As they had not effablifhed themfelves in any regular body, or provided a fund for their fupport, they felt their Arength decay, and multitudes of them returned to their habitations. Thofe who remained found themfelves obliged to vindicate their condut; and, in an addrefs to the regent, to difclaim all treafonable intentions. Negociations again took place, which ended as ufual ; the queen-regent, who had taken this opportunity of collecting her forces, narched againft the Congregation on the 23 d of July 1559 . The Proteflants nov: found themfelves incapable of making head againft their enemies; and therefore intered into a negociation, by which all differences were for the prefent accommodited. The terms of this treaty were, that the town of Edinburgh flould be open to the queen dowager and her attendants; that the palace of Holyroodhou'e and the mint fhould be delivered up to her; that the Proteltants fhould be fubject to the laws, and abftain from moleiting the Catholics in the exercife of their religion. On the queen's part, it was agreed, that the Proteftants fhould have the free exercife of their religion, and that no foreign troops fhould enter the city of Ldinburgh.

Notwithlanding this treaty, however, the reformed had no confidence in the queen's fincerity. Having heard of the death of Henry 1I. of France, which took place on the 8th of March 1559, and the accelfion of Francis II. and Mary to the throne of that kingdom, they feem to have appreliended more danger than ever. They now entered into a third covenant; in which they engaged to refufe attendance to the
queen-dowager, in cafe of any meflage or letter; and Scotlons. that immediately on the receipt of any notice from hez to any of their number, it fhould be communicated without referve, and be made a common fubject of ferutiny and deliberation. It was not long before they had occafion for all their confancy and frength. The queen. The tieaty regent repented of the favourable terms the had granted broken by the reformed; and being denied the favour which fhe the queenrequelted of faying mafs in the high. church of Edin regent burgh, fle ordered them to be everywhere difturbed in the exercile of their religion.

In this imprudent meafure the queen-regent was con- France fupfirmed by letters which now came from Francis and pors the Mary, promifing a powerful army to fupport her inte- Latholic refts. The envoy who brought thefe difpatches alfo party. carried letters to the lord James Stuart, now the principal leader of the Proteftants, and natural brother to the queen. The letters were filled with reproaches and menaces, mixed with intreaties; and along with them the envoy delivered a verbal meffage, that the king his mafler was refolved rather to expend all the treafures of France than not to be revenged on the rebellious nobles who had difturbed the peace of Scotland. The lord James Stuart was not to be frightened by thefe menaces. He returned a cool and deliberate anfwer, apologizing for the Proteflants, and vindicating them from the charge of rebellion; but at the fame time intimating his full refolution of continuing to head the reformed as he had already done.

The letters of Francis and Mary were foon followed French atby 1000 French foldiers, with money and military xiliaries arfores; and the commander was immediately difpatched rive, which again to France, to folicit the affilance of as many nation. more foldiers, with four hhips of war, and 100 men at- An. 1560. arms. But before he could fet out, La Broffe, znother French commander, arrived with 2000 infantry; and that the Congregation might be defeated not only by arms but in dilputation, the fame thip brought three doctors of the Sorbonne, to fhow the pernicicus tendericy of the new doctrines. Thus matters were pufhed on beyond all hopes of reconciliation. The nation was univerfally alarmed on account of the introduction of French troops, to which they faw no end. The queen-regent attempted to quiet the minds of the public by a proclamation : but their fears increafed the more. The Congregation affembled at Stirling, where they were joined by the earl of Arran, and foon after by his father the duke of Chatelherault. They next deliberated on the meafures to be followed with the queen-regent; and the refult of their confultations was, that an expoftulatory letter fhould be addreffed to her, This was accordingly done; but as the queen behaved with her ufual duplicity, the nobles called the people to arms. Mutual manifeftoes were now publithed; and both partics prepared to decide the conteft by the fword. The Congregation having feized Broughty $5^{5} 9$ cafle, marched thence to Edinburgh. The queen-Th n bles regent retired to Leith, which fhe had fortified and fend their filled with French troops. Thither the nobles fent all meflage their laft meffage to her, charging her with a defign to queen-reoverthrow the civil liberties of the kingdom. They re-gent. quefted her to command her Frenchmen and meicenaries to depart from Leith, and to make that place open, not on'y to the inhabitants who had been difpoffeffed of their houfes, but to all the inhabitants of Scotlond.

## $\mathrm{S} C$

$\underbrace{\text { Solotins. }}$

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Receive an-

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ab!e an-
fwer.

591
They degrate her from her office, and liy fiege 10 Leith.

They declaied, that her denin! of this requeft fhouid be con idesed by them as a prouf of her intention to reduce the king doin to llavery; in which catc, they were determined to cmploy their utmoft power to preferve its independence. Two days after this mellage, the queenregent fent to them the lord Lyon, whom the enjoined to tell them, that the confidered their demand not only as prefumptuous, but as an encroachment on the rayal authority ; that it was an indignity to her to be dictated to by fubjects; that Frenchmen were not to be treated as foreigners, being entitled to the fame privileges with Scotimen; and that the would neither difband her troops, nor command the town of Leith to be made open. The lord Lyon then, in the name of the queen-regent, commanded the lords of the Congregation to depart from Edinburgh, and difperfe, under the pain of high trealon. The Proteftants irritated by this anfwer, after lome deliberation degraded the quecnregent ; and for this purpofe the nobility, barons, and burgeffes, all agreed in fublicribing an edict, which was fent to the principal cities in Scotland, and publified in them.

The next fiep taken by the Congregation was to fummon Leith to furrender ; but meeting with defiance inftead of lubmiffion, it was refolved to take the town by fcalade. For this fervice ladders were made in the church of St Giles; a bufneis which, interrupting the preachers in the exercife of public worlhip, made them prognofticate misfortune and mifcarriage to the Congregation. In the difpleafure of the preachers, the common people found a fource of complaint; and the
Sn2 emilaries of the gueen dowaser acting with indefatigable Divfions induftry to divide her adverfaries, and to fprcad chagrin take pase and diffatisfaction among them, difcontent, animofity, among and terror, came to prevail to a great degree. The
them. duke o! Chatelherault difonuraged many by his example. Defection from the Proteltants added frength to the queen-dowager. The molt fecret deliberations of the confederated lords were revealed to her. The foldiery were clamorous for pay; and it was very difficult to procure money to fatisfy their clains. Attempts to foothe and appeafe them, difcovering their conferuence, eagendered mutinies. They put to death a domeltic of the earl of Argyle, who endeavoured to compofe them to order: they infulted feveral perfons of rank who difcovered a folicitude to pacify them; and they even ventured to declare, that, for a moper reward, they were ready to fupprefs the reformation, and to re-efla-
393 blifh the mafs.
They 'a' It was abfolutely neceffary to give fatisfaction to in'o diftrefthe Proteltant foldiers. The lords and gentlemen of and rreat the Congregation collected a conliderable fum among with Queen them ; but it was not equal to the prefent exigency. The avarice of many taught them to withhold what they could afford, and the poveity of others did not permit them to iiddulge their generofity. It was refolved, that each nobleman thould furrender his filverplaie to be coined. By the addrefs, however, of the queen-dowager, the officers of the mint were bribed to conceal, or to convey to a diftance, the famps and inItruments of collage. A gloomy defpair gave difquiet to the Congregation, and threstened their ruin, Queen Elizabeth, with whofe minifters the confederated lords maintained a correfpondence at this time, had frequently promiled thew her alliflance; but they could not now

wis the event of a deputation to the court of Earland. Sectiand In an extremity fo preffing, they therefore applied for a fum of money to Sir Ralph Sadler and Sir James Crott, the governors of Berwick ; and Cockburn of Omiton, who was entrulted with this commiffion, obtained from them a fupply of 4000 crowr:s. Traitors, however, Inglif. in the councils of the Congregation, laving informed fibfidy the queen-dowager of lis errand and expedition, the earl the quen then of Bothwel, by her order, intercepted him upon his re-regent. turn, difcomfted his retinue, and made a prize of the Englif. fubfidy.

To roufe the fpirit of the party, an attack was projected upon Leith, and fome pieces of artillery were planted againft it. But before any charge could be made, the French foldiers fallied out to give battle to the troops of the Congremation, pofiefled themletses of The Pio their cannon, and drove them back to Edinburgh. A tefants repo:t that the victors lad entered this city with the fu- defeated. gitives, tilled it with dilorder and difmay. The earl of Argyle and his Highlanders haftened to recover the honour of the day, and haraffed the French in their retieat. This petty conflict, while it elated the queerndowager, ferved to augment the defpondence of the Proteitants.

Vain of their prowefs, the French made a new fally from Leitb, with a view to intercept a fupply of provifions and fores for the Congregation. The earl of Arran and the lord James Stuart advanced to attack them, and obliged them to retire. But purfuing them with too much precipitation, a frefh body of French troops made its appearance. It was prudent to retreat, but The Pie difficult. An obftinate refiftance was made. It was teftants the object of the French to cut off the foldiery of the feated. Congregation from Edinburgh, and by thele means to divide the frength of that ftation. The earl of Arran and the lord James Stuart had occafion for all their addrefs and courage. Though they were able, however, to effect their efcape, their lofs was confiderable, and the victory was manifetly on the fide of their adverfaries.

About this time William Maitland of Le:hington, Maitland, fecretary to the queen-dowager, withdrew fecretly from the queer. Leith, and joined himielf to the conicderated nobles. fowager's He had been difgufted with the jealoufies of the Frencli revolts to counfellors, and was expofed to danger from having the Pruteembraced the do9rines of the reformed. His reception tlants. was cordial, and correfponded to the opinion entertained of his widom and experience. He was fkilled in bufiness, adorned with lieerature, and accullomed to reficition. Butas yet it was not known, that his want of integrity was in proporion to the greatnefs of his talents.

The acce?fion of this ftatefman to their party could not confole , he lords of the Congregation for the unpromining aficet of their affairs. The two difcomft ures iliey had rcceived lunk deeply into the minds of their followers. 'Thofe who affected prudence, retised privatcly from a caufe which they accounted defperate; and the timorous fled with precipitation. The wailings and ditrutt of the brethren were melancholy and infectious; and by exciting the ridicule and fcorn of the partifaiss of the queen-dowager, were augmented the more. A diftrefs not to be comforted feemed to have invaded the Proteftants; and the aflociated nobles confented to abandon the capital. A little after midaight, they re-

## S C O [ 6, 6 [ S C O

Scotland. tired from Edinburgh; and fo great was the panic 59S- which prevailed, that they marched to Stirling without 595
They retirc fr.m EdinEur th to Sturling. John ${ }^{5 n 9} \mathrm{Kn}: x$ encourages them. making any halt.
Joln Knox, who had accompanied the Congregation to Stirling, ansious to recover their unanimity and courage, addreffed them from the pulpit. He reprefented their misfortunes as the confequences of their fins; and entreating them to remember the goodnefs of their caufe, affured them in the end of joy, honour,

600
Elizabeth
determines
in affift the reformers.

6 cr
The French rroops walte the eftates of the reformed.
6.2

They are oppofed with fuccefs by Lord James Stuart. and victory. His popular elo puence correfponding to all their warmeft wifhes, diffufed fatisfaction and cheerfulnefs. They paffed from defpair to hope. A council was held, in which the confederated robles determined to folicit, by a formal embafly, the aid of Queen Elizabeth. Maitland of Lethington, and Robert Melvil, were chofen to negociate this impotaant bufinefs; and they received the fulleft inftructions concerning the ftate and difficullies of the Congregation, the tyrannical defigns of the queen-dowager, and the danger which threatened England from the union of Scotland with France.

The queen of England having maturely confidered the cafe, determined to afift the reformers; whofe leaders now difperfed, and went to different parts of the kingdom, to employ their activity there for the common caufe. The queen-dowager, imagining that the lords were fled, conceived great hopes of being able at once to crufh the reformed. Her fanguine hopes, however, rvere foon checked, on receiving certain intelligence that Queen Elizabeth was refolved to affitt them. She now took the beft meafures polfible, as circumftances then ftood; and determined to crufh her enemies before they could receive any affiftance from England. Her French troops took the road to Stirling, and wafted in their march all the grounds which belonged to the favourers of the reformation. After renewing their depredations at Stirling, they pafied the bridge; and proceeding along the fide of the river, exercifed their cruelties and oppreffions in a diftrict which had dittinguifhed itfelf by an ardent zeal againft popery. While the terror of their arms was thus diffufing itfelf, they refolved to feize on the town and caftle of St Andrew's, which they confidered as an important military ftation, and as a convenient place of reception for the auxiliaries which they expected from France.

But the lord James Stuart exerted himfelf to interrupt their progrefs and fruftrate their attempts; and it was his object at the fame time to keep the force of the Congregation entire, to hazard no action of importance, and to wait the approach of the Englifh army. A fmall advantage was obtained by the French at Petticur ; and they poffeffed themfelves of Kinghorn. The lord Iames Stuart, with 500 horfe and 100 foot, entered Dyfart. With this inconfiderable force he propofed to act againft an army of 4000 men. His admirable fkill in military affairs, and his great courage, were eminently difplayed. During 20 days he prevented the march of the French to St $\Lambda$ ndrew's, intercepting their provifions, haraffing them with fkirmifhes, and intimidating them by the addrefs and the boldnefs of his ftratagems.

Monfieur d'Oyfel, enraged and afhamed at being difconcerted and oppofed by a body of men fo difproportioned to his army, exerted himfelf with vigour. The lord James Stuart was obliged to retire. Dyfart and

Wemyfs were delivered up to the French troops to be pillaged and whe ill Andrew's he difcovered a powerful fleet bearing up the 603 frith. It was concluded, that the fupplies expected Arrival of from France were arrived. Guns were fired by his the Englifh foldiers, and their joy was indulged in all its extrav2- fleet. gance. But this Heet laving taken the veffels which contained their provifions, and the ordnance with which they intended to improve the fortifications of the caitle at St Andrew's, an end was put to their rejoicings. Certain news was brought, that the fleet they obferved was the navy of England, which had come to fupport the Congregation. A confternation, heightened by the giddinefs of their preceding tranfports, invaded them. Monfieur d'Oyfel now perceived 604 the value and merit of the fervice which had been per-general formed by the lord James Stuart; and thinking no moreflies. of St Andrew's and conqueit, fled to Stirling, in his way to Leith, from which he dreaded to be intercepted; but he reached that important ftation after a march of three days.

695
A formal treaty was now concluded between the lords Treaty of the Congregation and Queen Elizabeth; and in the between mean time the queen-dowager was difappointed in her Elizabth expectations from France. The violent adminiftration Scots Proof the houfe of Guife had involved that nation th trou-teftants. bles and diftrefs. Its credit was greatly funk, and its treafury nearly exhaufted. Perfecutions, and the fpirit of Calvinifm, produced commotions and confpiracies ; regent queen. and amidtt domeftic and dangerous intrigues and frug-appointed gles, Scotland failed to engage that particular diftinction in her exwhich had been promifed to its affairs. It was not, pectations however, altogether neglected. The count De Mar- Fram tigues had arrived at Leith with 1000 foot and a few horfe. The marquife D'Elbeuf had embarked for it with another body of foldiers; but, after lofing feveral fhips in a furious tempeft, was obliged to return to the haven whence he had failed.

In this fad reverfe of fortune many forfook the queen- She is dedowager. It was now undeftood that the Englifh army ferted by was on its march to Scotland. The Scottifh lords who great numhad affected a neutrality, meditated an union with the fubjects. Proteftants. The earl of Huntly gave a folemn affurance that he would join them. Proclamations were iffued throughout the kingdom, calling on the fubjects of Scotland to affemble in arms at Linlithgow, to re-eftablift their ancient freedom, and to affift in the utter expulfion of the Fiench foldiery.

The Englifh fleet, in the mean time, under Winter the vice-admiral, had taken and deftroyed feveral chips, had landed fome troops upon Inchkeith, and difcomfit- 605 ed a body of French mercenaries. On being apprifed The princes of thefe acts of hoftility, the princes of Lorraine difpatch- of Lorraine ed the chevalier de Seure to Queen Elizabeth, to make toneguciate reprefentations againft this brcach of peace, and to urge with Queen the recal of her fhips. This ambaffador affected like-Elizabeth wife to negociate concerning the evacuation of Scot- invain. land by the French troops, and to propofe methods by which the king of France might quarter the arms of England without doing a prejudice to Queen Elizabeth; but to prevent the execution of vigorous refolutions againft the queen-dowager, and to gain time, were the only objects which he had in view. With fimilar intentions, John Monluc bihop of Valence, a man of greater addrefs and ability, and equally devoted to the

## S C O

$s$-otland. houfe of Guife, was allo fent at this time to the court $\underbrace{}_{\text {- of England. Queen Elizabeth, however, and her mini- }}$ thers, were too wife to be amuled by artifice and dex-

6-9 AnLing! 1 arin) cutcr Seot.a 1.
$61=$ retires to Edinburgh cattle.

611
The Proreftants in vite her to an acc mmodation.
61. put herfelf under the protection of the lord Et kkine.
The oucth. At the period when the was appointed to the regency, acti- At the period when fhe was appointed to the regency, dowazer the lord Er@ine lad received from the three eltates the charge of this important fortres, with the injunction to hold it till he fhould know their farther orders; and he giving way to the fulicitations of neither faction, had kept it with filelity. By admitting the queen-dowager, he yielded to fentiments of honour and humanity, and dit not mean to depart from his duty. Only a fers of her domeitics accompanied her, with the archbifhop of St Andrew's, the bifhop of Dunkeld, and the earl Marifchal. of 1200 horfe and 6000 foot; and the lord Scroop, Sir James Croft, Sir Henry Percy, and Sir Prancis Lake, commanded under him. By a cruel policy, the queendowager had already walted all the country around the capital. But the defolation which the had made, while it was ruinous to the Scottith peafants, affected not the army of England. I he leaders of the Congregation did not want penetration and forefight, and had themfelves provided agamft this difficulty. The duke of Chatelherault, the earls of Argyle, Glencairn, a d Menteith, the lord James Stuart, and the lords Ruthven, Boyd, and Ochiltree, with a numerous and formidable force, juined the Englith commander at Prct.on.

Struck with the fad condition of her affairs, defpairing of a timely and proper fuccour from France, and reminded by ficknets of her mortality, the queen-dowager retired from Leith to the caltle of Edinoush, and The confederated nobles now affimbled at Dalkeith to hold a council ; and comforming to thofe maxims of prudence and equity which, upon the eve of hortilities, had been formerly exercifed by them, they invited the queen-dowager to an amicable conclufion of the prefent troubles. In a letter which they wrote to her, they called to her remembrance the frequent manifeftos and meflages in which they had preffed her to ditmifs the French lolviery, who had fo long opprefled the lov er ranks of the people, and who threatened to re-d-ce the kingdom to fervitude. The averfion, however, whe which fhe had confantly received their fuit and prayers, was fo great, that they had given way to a it: $n$, necellity, and had intreated the aififtance of the quect of England to expel thefe firangers by-force of arrs. But though they had obtained the powerful protection of this princefs, they were fiill it mated wi.h a brcoming refpect for the mo her of :'e.: Nestign; and, a horing to tain the grownd wi A C'rmint bloud, we e diffoled once more to folicit is Aimifion of thete mercenaries, with their officers. And that no juft ohiection $\mathrm{m}^{\text {s }}$ ght remain agsin't the grant of this laft equeit, they affured her, that a fufe p.ilage by land, to the ports of E. hand, it culd be allowed to the French; or the if they judged it more agreeal le, the navy of Que in Elizabet hould tra port them to their own $c$ uthy. If the e propofils thoukt be reje-ted, they apveatid and protefted to G a aid to mankind, that it in wid he un-
 tred, or wickedneis of a y kind, lad libured them to cmaloy the fatal exped'e=t of anmis ara bettio: bat

To!. XVIII, Part II.
that they had been compelled to this dirige re:ille and diftred:ul remedy, for the pretervation of their co:nmonwe. th, th ir re'igion, their perfons, their equites, and th ir pollcrity. Mlicy beyged her to weigh the equi.y of their putition, to coulider the inconveniences of war, and to lli is of the 1 - it and quiet which were neceliary to relicve the alitistions of $h \mathrm{I}$ dangl ter's kiugdom; and they belons th her to embalin her o:rm memory, by an immortal deed of wifdom, humanity and juitice.

To give authority and weight to the letter of the afluciated lords, the lord Grey diructed Sir George Howard and Sir James Croft to wait on the queendorater and IIjpulate the peaceable departure of the Englith troops, on condition that the French mercataries thould be immediately ditimited from hor ferrice, and prohibited from refid 1 g in Scotland. Returning no direct anfwer to the arplications made to her, the dofired time to deliberate upon the refolution which it became her to adopt. This equivocal behaviour corsefponded with the firit of intrigue which had uniformly ditingtifhed the queen-dowas-r; and it is probable, that her enge gements with Frirce did not permit her to be open ard explicit.

The combined arimes marched towards Leith. A body of the Fench, pofted on a rifing ground called Houn bl $r$. the 1, divputcu their propress. Durng five hotrs illant ata the confint was maintained with obftinate valour. At length the Scottifh horfensen charged the Fiench with a fury which they were unable to refift. They fled to Leith with precipitation; and might have been cut off from it altogetaer, if the Englifh cavalry had exerted themfelves. Three hundred o the French foldiers perilhed in this action, and a few combatants only fell on the fide of the Congregation.

Leith was invelted. The parilions and tents of the stionis Englith and Scottifh notility were planted at Relk:-1- fets rig, and around it. Trenches were cait; and the ord- Le: nance from the town annoving the combined armice, a mount was raifed, upon which ei ht cannons wicre erected. A continued fire from the fe, againtt St Authony"s tower in South Leith, being kept up a d man..ed with flill, the walls of this fabric were ftaken, and the French found it neceffary to difmount their artillery. Negligent from fecurity, and apprehenfive of no at 2 L , the E:aglifh and Scottiff officers occ pied then e! es in amufements, and permitted a relicvation of militar" w! cipline. The Fronch, informed of this fupinenefs a.d levity, made a fally from Leit. TV file fome of thie centai s were diverti o thenalives it Ed' burgh, and the foldiery were en no red at d'ce and cards, they entered thec trences un.oofericed, avid, in; roving their advanlare, put $\Leftrightarrow-2$ men to the fion 1. - Afiert if ithter, the Poteflants were more atlentive to th ir $a^{c}$ -tirs.-Mount wic lnile at proper diffances, wt d the fe Le: foritiked with or:Inance, i-rved as pl.ces of retre $t$ An ! defemre hathe ev ut of fuduen incurions; and th s tiey contipued tho blockide in a more eff.etual m.: $n \cdot r$.
The armo urider the marquis D'Elbeuf, promifed fo ofie to * $x$ jueen rexil, woss in $x$ in coppected by her; Int the received, at ' is tine, fupr ies in money and mi-1.-ry fore ; ald Musluc bishon of Valence, 11 it defe er i dest-rity by Llizabeth and her miv ilere. had surve ir sooland to try cricu mos the . rt of 4 T CHy都

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## S C O [ 693 ] S C O

Siothan delay and negociation. Conferences were held by him 616 Fruitieis neaoc'tiliv, with England. with the queen-dowager, with the Englith commanders, and with the confederated mubles; but no contri: it or agreement could be coucluded. His crecentials extended nevilier to the demolition of Leith, nor to the recal of the French mercenaries: and though he ob-

617
The fourth tained powers from his crart to confent to the former of thefe meafures, thoy were ret burdened with conditions which were difernceful to the Congregation; who, in the prifent prof cious fate of their affairs, were not difpofed to give up any of the objects for which they bad fruggled fo long, and to the attainment of which they now looked forwand with a fettled hope and expectation.

Though the grave and meafured crations of Monluc could not overpower the plain and ftubborn fenfe of the Congregation, yet as he affected to give them admonitions and warmiags, and even ventured to infult them with menrece, they appear to have conceived a high indignation again th him. Under this impulle, and that, in lo advanced a flage of their affairs, they might exhibit the determined firmnefs of their refolutions, and bind to them by an indiffoluble tie the earl of Huntly and the other perfons who had joined them in confequence of the Etiglifh alliance, they thought of the affurance and Atability of a new league and covenant, more folemn, expreffive, and refolute, than any which they had yet cutered into and fubferibed.

The nobles, barons, and inferior perfons, who were parties to this bond and affociation, bound themfelves in the prefence of Almighty God, as a fociety, and as individuals, to advance the reformation of religion, and to procure, by all poffisle means, the true preaching of the gofpel, with the proper adminiftration of the facraments, and the other ordinances in comestion with it. Deeply affected, at the fame time, with the mifconduct of the French ftatefmen, who had been promoted to high offices; with the oppreflions of the French mercenaries, whom the queen-dowareer kept up and maintained under the colour of authority; with the tyranny of their officers; and with the raanifell danger of conqueft to which the country was expofed, by different fortifications on the feacoalt, and by other dangerous innovations; they promifed and eagaged, collectively and individually, to join with the queen of England's army, and to concur in an boneft, plain, and unreferved refolution of expelling all foreigners from the realm, as oppreffors of public liberty ; that, by recovering the ancient rights, privileges, and freedom of their nation, they might live for the future under the due obedience of their king and queen, be ruled by the laws and cufoms of the country, and by cfficers and ftatefmen born and educated among themfelves. It was likewife contracted and agred by the fublcribers to this bond and covenant, that no private intelligence by writing or meflage, or communication of any kind, fhould be kept up with their adverfaries; and that all perfons who refitted the godly enterprife in which they were united, flould be regatded as their enemies, and reduced to fub-

The queen- When the ftenng and fervid fentiment and expreflion dowazer givesherfelt up to depair,
of this new affociation were communicated to the queendowager, the abandoned herfelf to furrow. Her mind, inclined to defpondence by the increafe of her malady,
feit the more intenfely the cruel diftractions and dif. Scotlan:. quiets into which the kingdom had been driven by the ambition of France, her own doating affection for the princes of Lonaine, and the vin prognoftications of flatterers and cuurtiers. In the agony of pattion, fhe befought the malediction and cufe of God to alight upon all thole who had ccunfelled her to perlecute the preachers, and to refufe the petitions of the mon honourable portion of her fubjects.

In the mean time the fiege of Leith was profecuted. But the ttrength of the garition amounting to more than 4000 Iolviers, the operations of the befiegers were flow and languid. An accidental fire in the town, which deftroyed many l:oufes and a great part of the public granary, afforded them an opportunity of playing their artillcry with fome advantage; and a few days after they made a general affault. But the fcaling- The Proladdcrs which were applied to the walls being too Short, make an and Sir James Croft, who had been gained over to the unfacceffful queen-dowager, laving acted a treacherous part, the at- Leith. tempt failed of fuccefs, and 1000 men were deftroyed. The combined amies, however, did not lofe their refolution or their hopes. The Englifh and Scots animated the conflancy of each other ; and in the ratification of the treaty of Bernick, which was now made, a new fource of cordiality opened itfelf. Letters had allo come from the duke of Norfolk, promiling a powerful reinforcement, giving the expectation of his taking on himfelf the command of the trooss, and ordering his pavilion to be erected in the camp. Leith began to feel the mifery of famine, and the French gave themfelves up to defpair. The befiegers abounded in every thing ; A reiaand the arrival of 2000 men, the expected reinforce-forsement ment from England, gave them the moft decifive fupe-arrives riority over their adverfaries. Frequent fallies were from Eng made by the garrifon, and they were always unfuccefsful. Difcouraged by defeats, deprefled with the want of provifions, and languifhing under the negligence of France, they were ready to fubmit to the mercy of the Congregation.

Amidft this diftrefs the queen-dowager, wafted with Death of a lingering diftemper and with gricf, expired in the the queencaftle of Edimburgh. A few days before her death, the invited to her the duke of Chatelherault, the lord James Stwart, and the earls of Argyle, Glencairn, and Marifchal, to bid them a laft adieu. She expreffed to them her forrow for the troubles of Scotland, and made it her eameff fuit, that they would conlult their corffitutional liberties, by difmiffing the French and Englifn from their country ; and that they would preferve a dutiful obedience to the queen their fovereign. She profeffed an unlimited forgivenefs of all the injuries which had been done to her; and entreated their pardon for the offences the had committed againit them. In token of her kindnefs and charity, the then embraced them by turns; and, while the tear flarted in her eye, prefented to them a cheerful and fmiling afpect. After this interview, the fhort portion of life which remained to her was dedicated to religion; and that She might allure the Congregation to be compaffionate to her Popifh fubjects and her French adherents, fhe fiattered them, by calling John W'illocks, one of the moft popular of their preachers, to affft and comfort her by his exhortations and prayers. He made long difcourfes to her about

## S C O

Seotland. about the abominations of the mafs; but fhe appears to have died in the communion of the Romilh church; and her body being tranfported to France, was depofited in the monaftery of St Peter, at Rheims, in Champagne, 622 where her fifter Renée was an abbefs.
The French The death of the queen-dowager, at a period fo crititroops fub- cal, broke altogether the firit of the French troops. They were blocked up fo completely, that it was almoft impoffible for any fupplies to reach them either by fea or land; and France had delayed fo long to fulfil its magnificent promifes, that it was no longer in a capacity to take any iteps towards their accomplihment. Its internal diffrefs and difquiets were multiplying. The nobility, impoverifhed by wars, were courting the rewards of fervice, and itruggling in hoflility. The clergy were avaricious, ignorant, and vindictive. The popalace, knowing no trade but arms, offered their fwords to the factious. Francis II. the hurband of Mary, was without dignity or underfanding. Catharine de Medicis his mother was full of artifice and falfehood. Infurrections were dreaded in every province. The houlc of Guile was encompaffed with dilliculties, and trembling with apprehenfions, fo that they could not think of perfifting in their views of diffant conquefts. It was ncceffary that they fhould abandon for a time all the proud projects they bad formed for the extenfion of the French monarchy. It was chiefly in the exemption from foreign wars that they could hope to fupport their own greatnefs, and apply a remedy to the domeftic difturb-
623 ances of France.
Francis and It appeared to Francis and Mary, that they could Maryenter
into a ne-
not treat in a direct method with the Congregation, into a nezociation with Elizabeth. whom they affected to confider as rebellious fubjects, without derogating from their royal dignity. In negociating a peace, therefore, they addreffed themfelves to Queen Elizabeth. It wes by her offices and interference that they projected a reconciliation with the confederated lords, and that they fought to extinguifl the animofities which, with fo much violence, had agitated the Scoltih nation. They granted their commifion to John Monluc bifhop of Valence, Nicholas Pelleve bifhop of Amiens, Jacques de la Broffe, Henry Clentin fieur d'Oyfel, and Charles de la Rochefaucault fieur de Randan ; authoriing them in a body or by two of their number, to enter into agreements with the queen of Engi nd. The Engliih commifioners were Sir Wiilizan Cecil principal fecretary of itate, Nicollas Wotton dean of Canterbury and York, Sir Ralph Sadier, Sir Henry Percy, and Sir Peter Crew; and the powers of treaty ucre to be exersifed by them all in conjunction, or hy four, three, or tron of them.

624 Promire an indemn:ty to the Proteflants.

The plet ipotentiaries of France, though emnowered orly to treat with England, were yet, by a feparate commiffion, entrufted to affure the Congregation, that, notwithitanding the beinous guilt incurred by them, Francis and Mary were inclined to receive them into favoar, upon their repentance and return to obedience; and to ablain for ever from all inguiry into their conduct. They had full authority, at the fame time, by this new deed, to hear, in conjurction with the commiffioners of Elizabeth, the complaints of the Congregation, and to grant, with their confent, the relief which appeared to them to be the mot proper and falutary.

The nobility and people of Scotland, choofing for
their reprefentatives the lord James Stuart, the lord Seotland. Ruthven, and Maitland of Lethington, expreffed their willingnefs to concur in reafonable meatures for the reeftabliihment of the public tra:quillity. By the mode of a formal petition, they enumerated their grievances,
laid claim to redrefs, and befought an uniform protection to their condtitution and laws. To this petition the interceffion of Queen Elizabeth effected the friendly attention of Francis and Mary ; and on a foundation concerted with fo much propricty, Monluc and R.andan, Cecil and Wotton, the acting plenipotentiaries of France and England, drew up and authenticated the celebrated deed of relief and conceflion which does fo much honour to the firit, perfeveratice and magnanimity of the Scottilin nation.

By this agreement, Francis and Mary flipulated and Nature of coniented, that no French fuldiers and no loreign tronps whith the th fhould ever be introduced into Scotland without the coun- Proteflants. fcl and advice of the three cirates. They concurred in opiaion, that the French mercenaries fhould be fent back to France, and that the fortifications of Leith fhould be demolihited. Thiey agreed that commiffioners fhould be appointed to vifit Dunbar, and to puint cut the works there which ought to be defroyed; ard they bound themfelves to build no new fortsefs or place of itrength within the kingdom, and to repair no old one, without a parliamentary fanction. They confented to extinguifh all debts which had been contraeted for the maintenance of the French and Scotch foldiery in their fervice. They appointed the effates of the realm to hold a parliament for the difculfon of affairs of flate; and they obliged themfetves to confider the acts of this aff=mbly as valid and effectual in every refpect. They confirmed the ancient law of the country, which prohibited the princes of Scotland from makiig peact and war without the adrice of the three eflates. It was agreed by
then that the three eftates, in concursence wirh the out the adrice of the three eftates. It was agreed by
then that the three eftates, in concursence with the queen, flould elect a council for the adminifration of aftairs during her majefty's abfence. They became
bound to employ the natives of Scotland in the maaffairs during her majefty's abfence. They became
bound to employ the natives of Scotland in the manygement of juntice both civil and criminal, in the of-
fices of chancellor, keeper of the feals, treafurer, compn. gement of juftice both civil and criminal, in the of-
fices of chancellor, keeper of the feals, treafurer, comptroller, and in other itations of a fimilar nature ; and to abitain from the promotion of all foreigrers to places of truft and honour, and from invefting any clergyman in truft and honour, and from invefting any clergyman in
the charge of affairs of the revenue. They determincd to eftablifh an act of oblivion, and to forget for cver the memory of all the late tranlactions of war and of
fence. It was conclujud by them, that a general peace the memory of all the late tranfactions of war and of-
fence. It was concluded by them, that a general peace and reconciliation fhould take place among all parties. They exprefled their determination, that no pietence fhould be affumed by them, from the late contentions, fhruld be aflumed by them, from the late contentions,
to deprive any of their fubjects of their eftates or offices. And they referred the reparation which might be proper to compenfate the injuries which had been fuftained
by bifhops and ecclefiaftics, to the judgement of the three per to compenfate the injuries which had been fuftained
by hifhops and ecclefiaftics, to the judgement of the three eflates in parliam-nt.

On the futbe? of the reformation, the plenipotentiaries of England and France did not choofe to Celibearies of England and France did not choofe to Celibe-
rate and decide, though articles with regard to it had been prefented to thein by the nobles and thie people. They referred this delicate topic to the enfuing meeting of parliament ; and the leaders of the Congrezation cigaged, that deputies from the three eflaies illou'd repair



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627 Artides re lating 5 the Frenth bluops.
to the king and queen, to know their intention concerning matters of fuch high importance.

After having granted thefe conceffions to the nobility and the people of Scotland, on the part of their refpective courts, Monluc and Randan, Cecil and Wotton, concluded another treaty. By this convention it was determined, that the Englifh and French troops fhould depart out of Scotland; that all warlike preparations fhould ceafe; that the fort of Eymouth fhould be razed to the ground, in terms of the treaty of Cambray; that Francis and Mary fhould abllain from bearing the title and arms of England or Ireland ; that it thould be confidered, whether a farther compenfation fhould be made to Elizabeth for the injuries committed againft her; and that the king and queen of Scots thould be fully and fincerely reconciled to the nobility and the people of their kingdom. The interefts of England and France were the particular objects of this agreement. But thoush the conceffions to the Proteftants were not inferted in it at full length, an expreflive reference was made to them ; and they received a confirnation in terms which could not be milundertood. This deed recorded he clemency of Francis and Mary to their fubjects of Scotland, the extreme willingnefs of the nobinty and the peo le to relurn to their duty and allegiance, the repecientation they had offered of their grievances, and the requeft of $Q$ neen $E$ izabeth that redrefs thould be afforded them ; and it appealed to the confequent conceffions which had been itipulated to their advantage.

By thefe important negociations, the Proteftants, uFile they humbled France, flattered Queeri Elizabeth; and while they acquired a power to act in the eftablithment of the reformation, reffored to Scotland its civil conlitution. The exclufion of foreigners from offices of itate, the limitation of the Sc-ttifh princes with regard to peace and war, the advancement of the three e.tates to their ancient cor fequence, aul the act of oblivion of all offences, were acquifitions moft extenfively great and uleful; and, w ile they gave the fullelt fecurity to the reformed, gratified their moft fanguine expectations.
The peace, fo fortunat-ly concluded, was inmediately proclaimed. The Fiench mercenaries embarked for their own country, and the Enylihh army took the road to Berwick. Amidit events fo joyful, the preachers exhorted the c mfiter ted nobles to command the foletronity of a thankfuiving. It was ordered accordingly ; and after its celebration, the commifioners of the boroughs, with feveral of the nobility, and the tenants in capite, were appin'ed to ch ofe a ald depu'e miniflers to preach the gofpel in tie principal towns throughout the kingdom. John Kn a was called to difcharge the patoral funtions at E-wingoh, Chritoser Gcudman at St Andren's, Ad m Heriot 't Abercien, lom Row at Perth, Paul Met ven at dedburgn, Wi.li. m Chritifon at Dinden, Davil Fefuion at D. Eermline, ard Duvid Lindicy at Lettl. That the biffiefs of the church, at the fom tine, migl be managed with propriew, fuperin endan a ".ere clected to prtaide over the ecel ia 'ical allis is of particu' r pror incel athd dillrits. Mr Jolew S-o fivood was nirm 1 the fio rinterdant for the divifion of Lollian, Mir I Willoclis for that of Glaffow, Mr J $\quad \mathrm{n}$ Vinim for thin of Ff , M:

John Errkine of Dun for that of Angus and Mearns, S.otland. and Mr John Carfewell for that of Argyle and the Illes. This inconfiderable number of minitters and fuperintendants gave a beginning to the reformed church of Scotland.
$6{ }^{\circ} \mathrm{C}$
Amidtt the triumoh and exultation of the Proteftants, The parliathe meeting of parliament approached. All perfons who m.ntmeets. had a tille from lax, or from ancient cuffom, to attend the great council of the nation, were called to affemble. While there was a full convention of the greater barons and the prelates, the inferior tenants in capite, or the leffer barons, on an occafion fo great, inttead of appearing by reprefentation, came in crowds to give perfonally their affiffance and votes; and all the commiffioners for the boroughs, without exception, prefented themielves.

It was objected to this parliament when it was affembled, that it could not be valid, fince Francis and Mary were not prefent, and had not emporvered any perfon to reprefent them. But by the terms of the late conceffions to the nobility and the people, they bad in effect difpenfed with this formality ; and the objection, after having been warmly agitated for fome days, was rejected by a majority of voices. The lords of the articles were then chofen; and as the proteftant party were fuperior to the popilh faction, they were careful, in electing the members of this committee, to favour all thofe who were difpofed to forward the work of the reformation. The firft object which the lords of the ar-Supuicaticles held out to parliament was the fupplication of the tim of the nobility, gentiy, and all the other perfons who pro- Protefants. fefled the new doctrines. It required, that the Romifh cluurch flould be condemned and abolifhed. It reprobated the tenet of tranfubflantiation, the merit of works, papiltical indulgences, purgatory, pilgrimages, and prayers to departed faints; and confidering them as peftilent errors, and as fatal to falvation, it demanded, that all thofe who fhould teach and maintain them fhould be expofed to correction and punifhment. It demanded, that a remedy thould be applied againt the profanation of the holy facraments by the catholics, and that the ancient difcipline of the church frould be reflored. In fune, it inlifled, that the fupremacy and authority of the pope flould be abolifhed; and that the patrimony of the church thould be employed in fupporting the reformed minitity, in the provifion of fchools, and in the maintenance of the poor.

This fupplication of the Proteftants was received in parliament with marks of the greateft deference and refpect. The popill doctrines it cenfured, and the Itrong language it employed, excited no difpute or altercation. The nobility, however, and the lay members, did not think it expedient that the patrimony of the church, in all its extent, floul 1 be allotted to the reformed minittry, and the fupnort of hools and the poor. Avoiding, ther-fore, any cxplicit ferutiny into this point, the pirrliament: ave it in clarge to the miniffers and the leadliament save it in charge to the min fters and the lead-A $C$ ref.
ing men of the seformation, to draw up, under diftinct he de, the fubtance and fenfe of thofe doctrines which is avin up. ought to be ellablilhed over the kingdom. Within four days this. invertant buft ef wais accomulithed. The witito or inprument to which the reformed committed their upithens was termed, "The Confeflion of Fith, pr illed and bulered by the Patcilants will in the

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Scotland. rea ${ }^{1} \mathrm{~m}$ of Scotland (Q)." It was read firft to the lords of the articles. It was then read to the pariament; and the prelates of the Romilh church were command d , in the name of God, to make pu licly their oljections to the doctrmes it propoled. They preferved a profound fitence. A new diet was appointed for concluding the tranfaction. The articles of the Confeffon were again read over in their order, and the votes of parliament were called. Ot the temporal nobility, three only refufed to beflow on is their authority. The earl of Athol, and the lords Somerville and Bothwell, protefted, that " they would believe as their fathers had done before them." The bith ps and the ellate ecclefiaftical, from a confciournefs of the weaknefs of popery, feemed to have loft all power of feech. N, diffent, no vote, was given by them. "It is long (faid the earl Marifchal), fince I entertained a jealoufy of the Romifh faith, and an affection to the reformed doctrines. But this day has afforded me the completeft conviction of the faliehood of the one, and the truth of the other. The bithops, who do not conceive themfelves to be deficient in learning, and whofe zeal for the maintenatce of the hierarchy cannot be doubted, have abandoned their religion, and their intereft in it, as objects which admit of no defence or jultification." All the other conftituent members of this great council were zealous for the eftablifhment of the reformation, and affirmed the propriety of its doctrines. Thus the high court of parliament, with great deliberation and folemnitv, examined, voted, and ratified the confeffion of the reformed faith.
6:3 A few days after the eltablithment of the Confeftion of Faith, the parliament paffed an act againit the mafs and the exercife of the Romith worfhip. And it ferupled not to ordain, that all perfons faving or hearing mafs fhould, for the firit offence, be expoled to the confilcation of their eftates, and to a corporeal chaftifement. at the difcretion of the magiftrate ; that for the fecond offence, they 1 l:ould be banithed the kingdom ; and that efcapes not the obferva ion of the molf fuperficial hifforians, that thefe feveri ies vere exacty thole of which the Protefants had complained fo loucly, and with fo much juftice. By another ordination, the parliament, after having declared, that the pope, or bihop of Rome, had inflicted a dee, wound and a humiliating in "y upon the fovereignty a d government of Scotiand, by his frequent interferences and claims of power, commanded and decreed, that, for the futare, his jurifdiction a:d authority thould be extinef; and itat all perfons mair ainisg the fmalleft connection with him, or with his fect, fhold be liable to the lots of honour and offices,
$6 \%$ profcrintion, and banithment.
Francuard Thefe memorable and decifive natules produced the to e mirim tice ack, o: then parliament.

Mary iffife overthrow of the Romifh relizion. To obtain for thele proceedin s, and to its other or ${ }^{\prime}$ ? $\quad$, tie appro. bation of Francis and Mary was an o joll of the ereateft anxiety, and of isfinite moment to :he thre-e.tates.

Sir James Sandilands lord St John was therefira aponted to go to France, and to exprefs to the kirg and queen the affection and allegiance of their fubjects, to ex-lain what had been done in confequence of the late conceffions and treaty, and to folicit their royal ratification of the tranfactions of parli ment. The fpirited behaviour of the congregation had, however, exceeded all the expectations of the princes of Lorraine ; and the bufinefs of the embafly, and the ambaffador himfelf, though a man of character and probity, were treated not only with ridicule, but with infult and contumely. He returned accordingly without any unfwer to his commilfion. Inflead of fubmitting the heads and topics of a reformation to Francis and Mary, by a petition or a narrative, the parliament had voted them into laws; and from this informality the validity of its proceedings has been fufpected. But it is obfervable of the Proteftants, that they had not concealed their views with regard to religion and the aholition of Popery; that in the grant of redrefs and conceffion, and in the deed of treaty, no actual prohibition was made to prevent the eftablifhment of the reformation; that a general authority was given to parliament to decide in affairs of flate; and that Francis and Mury were folemnly bound to authenticate its tranfactions. Thou, h a fornality was infringed, the firit of the treaties was yet relpected and maintained. The nation, of confequence, imputed the conduct of Francis and Mary to political reafons fuggefted by the princes of Lorre ne, and to the artifices of the Popiff clergy ; and as Elizabcth did not refufe, on her part, the ratification of the agreements, and folicited and preffed the French coutt in vain to adopt the fame






















 liserty to remind them of the practices which had been employed to overturn their indrpendency, and begged them to conlider the unanimity and concord of their order as a neceflary guard againft the ambiti in and the artiice of the encmics of their nation.
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3 otland.
The fuccefs of the Congregation, though great and illuftrious, was not yet completely decifive. The refufal of Francis and Mary to ratify their proceedings opened a fource of bitternefs and inquietude. The Popih party, though humbled, was not aunihilated. Under the royal protection it would foon be formidable. Political confiderations might arife, not only to cool the amity of England, but even to provoke its refentment. And France, though it could now tranfport no army againft Scotland, might foon be able to adopt that expedient. Great diffractions and fevere calamities were flill to be dreaded. In the narrownefs of their own refources they could find no folid and permanent fecurity againft the rage and weight of domeftic faction, and the ftrenuous exertions of an extenfive kingdom. All their fair achievements might be blafled and overthrown. Popery might again build up her towers, and a fanguinary domination deftroy alike their religious and civil

While the anguils of melancholy apprehenfions repreffed the triumph of the Congregation, the event which could operate moft to their interefts was announced to them. This was the death of Francis 1I. The tie which knit Scotland to France was thus broken. A new fcene of politics difplayed itfelf. Catharine de Medicis, the queen-mother, ruled Charles IX. and was the perfonal enemy of the queen of Scots. The power and the credit which Mary had lent to her uncles, and the frequent and humiliating difappointments which the queen-mother lad fuffered from her influence over Francis, were now repaid with a fludied indifference and neglect. In the full perfection of her charms, with two crowns $u$ on her bead, and looking towards a third, fhe felt hericif to be without grandcur and without confequence. Leaving a court where the had experienced all the enjoymerts of which humanity is fufceptible, fhe retired to Rheims, to indulge her forrow.

In the humiliation of their queen, and in the change produced in the councile of Frace, the Protelants of Scotland found every putirise encouragement to proceed with vigour towards the fuil ciablifment of the reformed doctrines. Afier the parliament had been diffolved, they turned their houghts and attention to the plan of policy which might belt furt the tencts and religion for which they had contendid. The three eflates, amidtt their other tranfactions, had granted a Commiffion to John Winram, John Spottifwood, John to frame and model a fcheme of ecclefia icul government. They were not long in complying with an order fo agreeable to them, and compofed vat is termed the Firft Book of Difcipline; in which they explained the uniformity and method which ought to be preferved concerning doctrine, the adminiffration of the fac aments, the election and provifion of minifters, and the policy of the clurch.

A convention of the eftates gave its fanction to the Prefoyterian fo m of government. But while the lawever, to fucceffful in the doatrines and the policy

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Scotiand. finally demolihed; and the care of this barbarous, but popular employment, was committed to thofe perfons who were mott remarkable for their keennels and arour in the work of the reformation. 1/s execution in the weftern counties was given in charge to the earls of Arran, Argyle, and Glencairn ; the lord James Stunzt atiended to it in the more nor hern diffricts; and in the inland divifions of the country, it was intrutted to the barons in wh m the Congregation had the greatelt confidence. A dreadful devatration enfued. The populace, armed wihh aathority, fpread their ravages over the kingdom. It was deemed an execrable lenity to fore any fibric or place where idolatry had been exercifed. The churches and religious houfes were everywhere defaced, or demolithed; and their furniture, utenfils, and decorations, became the prize of the invader. Evil the fepuicines of the dead were ranfacked and viol ted. The liuraries of the ceclefiatics, and the regiffers kept by thera of their own tranfactions and of cival affairs, were gathered into heaps, and committed to the tlames. Religious antipathy, the fanction of law, the exnurtation of the clergy, the hope of foil, and, above all, the ardent defire of putting the laft hand to the reformation, concurred to drive the rage of the people to its wildelt fury; and, in the midit of havock and calamity, the new eitablihment furveyed its importance and its power.
640 Mary $o l i$ i- The death of Framcis II. having left his queen, Macuted to re. ry, in a very difagreeable fituation while the remained turn to her in France, it now became neceffiary for her to think of own coun- returning to her own country. To this flie was foli-
try. $\quad$ cited both by the Proteftants and Papilts; the former,

James, inagining that he was prejadiced in his favour, Scu'and. tosk care to imptove the favoaraule opportunity ; by wnich mea is he ootained a promite of the carldum of Marr.

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Before Mary fet out from France, the received an Her difenvoally from Quasen Elizabectin, pre ling lies to ratify putes with the trea:y of Sumburgn, in whicn the had taken care Elizabeth. to have a claute inierted, that Fratces and Many should for ever abilaia from alliming the title aind ams of England and Ireland. Bat thas,was declined uy the quecn of Scolland, who, in her coaterence whin the Englih amballadar, gave an enmaent proot ot her political abilities *. Hur retulal gruatly augnenced the * See $R a$ jealuufies which already prevanied vetwises ha, and bertforn of Elizabeth, infonuch that the latter reialed her a late Dimeny's
 conlidered by hlary as a high indgmety; the returnat 2iecn of a very lpinited anfiver, iniorming iec. 1ival, that the scotient. coad return to her own domm ions winout any atīit. ance from her, or indeed whetrer the would or not. In the month of Aaguth 1561, Niary fet lall from Calais for Scoiland. Sie left 1'ia we twith mich reforet; and at night ordered her couch to be broashe upora deck, deliring the pilot to awaken her in toc moriung if the coalt of France thould be in vie.s. Jise nigort proved calm, fo that the queen had an oproriunity of once more indulging herieft wina a figlat or that veloved country, A favouraule wind now fprang up, and a thick fog coming on, the elcapect a dquadrua of men of war which Elizaseth had let out to interc-jpl her; and on the 2 oth of the month the landed lately at alary yardis
Leith.

But though the Scots received their queen with the land. greatelt demonflrations of joy, it was not long before an irreconcileable quarrel begaa to taine place. The Proteilant religion was now eltablithed all over the kingdom; and its p:oieflors had fo far deviated from their own principles, or what ought to have been their principles, that they would grant no toleration to the oppofite party, not even to the fovereign herfelf. In confequence of this, when the queen attermpted to celebrate mals in her own chapel of Holyroodnoule, a vio- I ${ }^{6} 43$ lent mob affembled, and it was with the utmolt difin- by the Proculty that the lord James Stuart and fome other per-teftanis fons of high dillinction could appeale toe tumult. Miary atte:zpted to allay thef. ferments by a proclamation, in which the promifed to take the advice of the ftates in religious matters; and, in the mean time, declarcd it to be death for any perfion to attempt an innovation or alteration of the religion which the fuund generally ellablihed upon her arrival in Scotland. A. gainft this proclamation the earl of Arran protefted, and formally told the herald, the queen's proclamation flould not protect her attendants and fervants if they prefumed to commit idolatry and to fay mafs. John Knox declared from the pulpit, that one mafs was more terrible to him than if $1,0,000$ armed enemies had landed in any part of the kingdom to re-elfablith Popery. The preachers everywhere declaimed againit idolatry and the mals; keeping up, by their miltaken zeal, a fpirit of difcontent and fedition throughout the whole kingdum. John Knox was called before the queen to anfiwer for the freedom of his fpeeches; but his unbounded boldnefs when there gave Mary much difquiet, as not knowing in what manner to treat him.

## S C O [ 704 ] S C O

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The fren mas, how $x$, with vere t. ken fith the
 of gover. ment whic the had laid down i: ? We. To the Protertants the culied to ma" the sfous. . attention ; from among te en fhe choie her :-il :- ancil,
 Bis ativity in promating the return tion ......emut popular man in the kinsdum; while to l.er coeriors of the Catholic perfuafon the tehaved with a di....tit i mality.

In the mean time, the differences between the two rival queens became cyery lay greater. The queen of Scotland preffed Elizateeth to doclare her the neasitt heir is the crown of England, snd Elizabeth urged Mary to confirm the treaty of Edinburgh. With this the latter could not comply, as it would in fact have keen renouncing for ever the title to that crown for which fte wits fo earnefly contenaing. Lndle's negociations were the confequence, and the hatred of E!izal eth to Mury conti witly incre. Sd. This ye : the guen of Scotland amuicel herelt by monking a circuit throu h vat of her domink is. From Elinbugh the foceeded to Stir!!ing the we to Perth, Dundee, a ad St Andre $\%$ s. Tbeun received eve ywhere with the greatell cclamations and marks of affection, fhe could not but remark the rooted averfion which had univerEnlly t. ken p'ace againt Popery; and upon her re:urn to Edinbur, h, her attention was called to an exertion of this zenl, which may fe confidered as hi hly characterivic of the times. The magiltrates of this city, after their election, emacted rules, according to cuftom, for the government of their borough. By one of thefe aets, which they publifhed by proclamation, they commanded all monks, friars, and priefts, together with all adulterers and fornicators, to depart from the town and its limits with in 24 hours, under the pains of correction and puniflment. Mary, jufly interpreting this exertion of power to be an ufurpation of the royal authority, and a violation of order, difplaced the magiftrates, commanded the citizens to elect others in their room, and granted by proclamation a plenary i dulgence to all her fubjects not conviited of any crive, to repair to and remuin in her capital at their y: tafure.
Befides the?e difurbances on account of religion, the king dom wis now in confufion from another caufe. The long continu.nce of civil wars had every where left a pronenefs to tumulis end infurrections ; and thefts, rapine, and licentioufnefs of every kind, threatened to fu vert the foundatious of civil fociety. Nary made confiderable preparations for the fuppreffion of thefe di orders, and appointed th. lord Jancs Stuart her chief jufliciary and lieutcoant. He was to hold two criminal csurts, the one at Jediur h, and the other at Dumfries. To affit hin operations againft the banditti, who were armed, and ofen afocitted i to bodies, a military force w.e neceniry; t s there were it pr ent ne ther fta:ding army ior regular troops in the kingdom, tl county of Edin' urgh, and tc. others, "cre commanded to I ave their flet gth i: readinefs to affirt lim. The for dal tetants, and the all dial or free propri orso thefechate, in comploe armour, and tith woviton les $2-i:<$ wer alp inted to be fulfervient atie pura fe if ormmirt, and to obey lis erders oftolition the fublic tien illity. In thi cxpe.
 Atrojed $m$ of if the :tong holds of the bat wio..; ; anged 22 of the me i no:orious offenden ; and acheod $5=$ m- re to be can ied lo Edinburst, thete to :Wiler ?/ peral ies if .... on account of theiz reteilious Letariour. He entered into terms with the lord Gicy and Jir Jol.n Fol.cr, the wardens of the Erglih b iders, for the muir.i Lenefit of the two nations: and he commanded the chills of the diforderly clans to fubmit to the queer, and to obey her orders with regard to the lecurirg of the peace, and preventing inurrections and depredations in futurc.

In the mean time the queen was in a very difagree- Marr did ${ }^{6}$ abie fitu tion, being fufpected and miftrufted by both truntedzby paties. Fiom the conceftions which the had made to both parthe PI-criants, the Papifts fuppofed tlat the had a de- ties. fign of renouncing their religion altogether; while, on the o er hand, the Proteltants could fcarcely allow thendielses to believe that they owed any allegiance to an idolater. Difquiets of another kind alfo now took place. The duke of Chatelherault, having left the Ca - character tholics to join the oppufite party, was neglected by lis. fher ditif rerid n . Being arraid of fome danger to himfelf, he erent courfor ifid the caflle of Dumbarton, which he refolved to tiers. defend; and in cale of neceffity to put himleif under the protection of the queen of England.-The earl of Arran was a man of very flender abilities, but of boundlefs ambition. The queen's beauty had made an impreffion on his heart, and his ambition made him fancy himiclf the fittelt perfon in the kingdom for her hufband. But his fanaticifm, and the violence with which he had oppofed the mals, had difgufted her. He bore her difike with an uneafinefs that preyed upon his intellects and difordered them. It was even fuppofed that he had concerted a fcheme to poffefs himfelf of her perfon by armed retainers; and the lords of her court were commanded to be in readine.s to defeat any project of this nature. The earl of Bothwel was ditininguifhed chiefly by his prodigalities and the licentioufie?s of his manners. The earl Marifchal had every thing that was honourable in his intentions, but was wary and flow. The earl of Morton poffefled penetration and ability, but was attached to no party or meafures from any $p$ inciples of recitude: His own advantage and interefts were the motives by which he was governed. The carl of Huntly the lord chancellor, was unquiet, verable, and vindictive: His paffions, norr fermentiig with violence, were foon to break forth in the moft dangerous practices. The carls of Glencairn and Menteith were deeply tinchured with fanaticifin; and their inordinate zeal for the new opinions, not lefs than their poserty, recommended them to Queen Elizabeth. Her ambaffador Rand lph, advifad her to fecure their fervices, by addreffin therelf to their neceflities. Among cour iers of this de:crip ion, it was difficult for Mary to make a felection of minilers in whom fhe might confide. The confequence and popularity of the lord Jaines Stuart, and of Mailland of Lethington, had early pointed them out to this difingion ; and hitherto they had atted to her fatisfie ion. They wore each of eminent capa ity : but the former was fufpected of aiming at the forerignty; the lifter was prove to refinement and dunlicily; and bowh wero mor attached to Eliz, woh than berane them as the minititers and fubjects of another (b) ecis.

Beide

## S C O [ 705 ] S C O

${ }^{\text {scotland. Befide the policy of employing and trufling ftatef- }}$ men who were Proteftants, and the precaution of maintaiaing a firm peace with England, Mary had it alfo at
649

## She obtain

 a part of the ecclefiaftical re. venues. ien enrich the crown with the revenses of the an to deliberate on this meafure. The bithops were alarmed at their perilous fituation. It was made known to them, that the charge of the queen's houlehold required an augmentation ; and that as the rents of the church had llowed chiefly from the crown, it was expedient that a proper proportion of them fhould now be refumed to uphold its fplendour. After long confultations, the prclates and ecclefiatical eflate confidering that they exited merely by the favour of the queen, confented to refign to her the third part of their benefices, to be managed at her pleafure; with the refervation that they fhould be fecured during their lives againtt all farther payments, and relieved from the burden of contributing to the mainteriance of the reformed clergy. With this offer the queen and the convention of effates were fatisfied. Rentals, accordingly, of all their benefices throughout the kingdom, were ordered to be produced by the ancient ecclefiaftics; the reformed minifters, fuperintendants, elders, and deacons, were enjoined to make out regiters of the grants or provifions neceffary to fupport their eftablifhment ; and a fupereminent power of judging in thefe matters was committed to the queen and the privy council.While the prelates and ecclefiatical effate fubmitted to this offer from the neceffity of their affairs, it was by no means acceptable to the reformed clergy, who at this time were holding an affembly. It was their earneft wih to effect the entire deftruction of the ancient effablibment, to fucceed to a large proportion of their emoluments, and to be altogether independent of the crown. But while the Proteltant preachers were naturally and unanimoully of thefe fentiments, the nobles and gentlemen who had promoted the reformation were difpofed to think very differently. To give too much of the wealth of the church to the reformed clergy, was to inveft them with a dangerous power. To give too great a proportion of it to the crown, was a ftep fill more dangerous. At the fame time it was equitable, that the ancient clergy fhould be maintained during their lives; and it accorded with the private interefts of the nobleinen and gentlemen, who had figured during the reformation, not to confent to any fcheme that would deprive them of the fpoils of which they had already poffeffed themfelves out of the ruins of the church, or which they might fill be enabled to acquire.

650 Bad fuecefs of the demands of the Proteftants.

Thus public as well as private confiderations contributed to feparate and divide the lay Proteftants and the preachers. The general affembly, therefore, of the church, was not by any means fuccefful in the views which had called them together at this time, and which they fubmitted to the convention of efiates. Doubts were entertained whether the church had any title to affemble itfelf. The petition preferred for the complete abolition of idolatry, or for the ut:er prolibition of the mafs, was rejected, notwithftanding all the zeal manifefted by the brethren. The requelf that Mary flould give authority to the book of difcipline, was not only refufed, but even treated with ridicule. The only point preffed by the church which attracted any notice, was its requifition of a provilion or a maintenance; but the

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meafure propofed for this end was in orpphition to all its surad.d. warmeft defires.

This meafure, however, fo unpromifing to the preachers in expectation, was found to be fill more unfatisfactory on trial. The wealth of the Ri- miifh chu.rcla had been immenfe, but great invafions had beea made on it. The fears of the ecclefiallics, on the overthrow ef popery, induced them to engage in fraudulent tranfastions with their kinfmen and relations; in contequence of which many poffeffions were conveyed frons the church to private hands. For valuable confiderations, leafes of clurch lands, to endure for many years, or in perpetuity, were granted to ftrangers and adventurers. Salealfo of ecclefiaftical property, to a great extent, had been made by the ancient incumbents; and a validity was fuppofed to be given to thefe tranfactions by confirma tions from the pope, who was zealous to affif his votaries. Even the crown itfelf had contributed to make improper difpofitions of the ecclefiaftical revenues. Laymen had been prefented to bihoprics and church-livings, with the power of difpofing of the territory in cothnection with them. In this diffufion of the properiy of the church, many great acquifitions, and much extenfive domain, came to be invefted in the nobles and the gentry.

From thefe caufes, the grant of the third of their benefices, made by the ancient ecclefiaftics to the queen, with the burden of maintaining the reformed clergy, was not nearly fo confiderable as might have been expected. But the direction of the fcheme being lodged in the queen and the privy-council, the advantage to the crown was flill greater than that beftowed upon the preachers. Yet the carrying the project into execution was not without its inconveniences. There were ftill many opportunities for artifice and corruption; and the full third of the ecclefiaftical benefices, even after all the previous abftractions of them which had been made, could not be levied by any diligence; for the ecclefiaftics often produced falfe rentals of their benefices; and the collectors for the crown were not always faithful to the truft repoled in them. The complete produce of the thirds did not amount to a great fum ; and it was to contribute towards the expences of the queen, as well as to the fupport of the preachers. A Provifion fcanty proportion went to the latter; and yet the per-made for fons who were chofen to fix their particular ftipends the Protewere the firm friends of the reformation. For this bufi- ftant nefs was committed in charge to the earls of Argyle and Morton, the lord James Stuart, and Maitland of Lethington, with James Mackgill the clerk-regifter, and Sir John Ballenden the juftice-clerk. One hundred Scottifh merks were deemed fufficient for a common minifter. To the clergymen of greater intereft or confideration, or who exercifed their functions in more extenfive prarifhes, 300 merks were allotted; and, excepting to fuperintendants, this fum was feldom exceeded. To the earl of Argyle, to the lord lames Stuart, to Lord Erfkine, who had large ecclefiaftical revenues, their thirds were ufually remit!ed by the queen; and on the eftablifliment of this furd or revenue, fle alfo granted many penfions to pertuns about her court and of her houfchoid.

The complaints of the preachers were made with litule ${ }^{6} 52$ decency, and did not cuntribute to improve their condi- party dittion. The coldrefs of the Proteftant laity, and the hu- fatisfied.

4 U manity

## S C O

Suctlind. manity flown to the ancient clergy, were decp wounds both 10 their pride and to their interefts. To a mean fyirit of flattery to the reigning power, they imputed the defetion of their frietids ; and arainft the queen they were animated with the bitteref animofity. The poverty in which they were fuffured to remain inflamed all their palfions. They induffriontly fought to indulge their rancour and turbulence ; and inveterate habits of infult fortified them with a contempt of autbority.
To the queen, whofe temper was warm, the rudenefs of the preachers was a painful and endlefs inqquietude, which, while it fortered he: religious prejudices, had the good effect of confrming her conftancy to her friends, and of keeping alive her gratitude for their activity. The lord James Stuart, who was intitled to her refpet and efteem from his abilities, and his proximity to her in blood, had merited rewards and honours by his public fervices and the vigour of his counfels. After his fucceffsul difcharge of her commifion as chief jufticiary and lord lieutenant, fiee could not think of allowing him to defcend from thefe effices, without beflowing on him a folid and permanent mark of her favour. She advanced him to the rank of her nobility, by conferring on him the earldom of Mar. At the fame time ftie contributed to augment his confequence, by facilitating his marriage with Agnes the daughter of the earl Marifchal; and the ceremonial of this alliance was celebrated with a magnificence and oftentation fo extravagant in that age, as to excite the fears of the preachers left fome avenging judgement or calamity fhould aflict the land. They exclaimed with virulence againft his riotous feafting and banquets; and the malquerades which were exthibited on this occafion, attracting in a ftill greater degree their attention, as being a fpecies of entertainment hitherto unknown in Scotlaid, and which was favourable to the profanenefs of gellantry, they pointed againf them the liceneft Atrokes of their cenfure and indignation.

The abilities of the earl of Mar, the afcendency he maintained in the councils of his fovereign, and the diftinctions which he had acquired, did not fail to expule him to uncommon enyy. The moft defperate of his enemies, and the moft formidable, was the earl of Huntly. In their rivalhip for power, many caufes of difguf. had arifen. The one was at the head of the Proteftants, the ather was the leader of the Papifts. On the death of Francis II. Huntly and the Popin1 faction had fent a deputation to Mary, inviting her to return to Scotland, and offering to fupport her with an army of 20,000 men. His advances were treated with attention and civility, but his offer was rejegled. The invitation of the Proteflants, prefented by the earl of Mar, was more acceptable to her. Huntly had advifed hier to detain his rival in confurement in France till the Cutholic religion fhould be re-eftablilited in Scotland. This advice the not only difregarded, but carefled his etemy gion. with particular civilities. On her arrival in her con country, Huntly renewed his advances, offering to ter to fet up the mafs in all the nothern counties. He even converfed in a prefling manner upon this fubject with her uncles and the French courtiers who altended her. Silll no real attention was paid to him. He came to her palace, and was received only with refpect. Ife was lord high chancellor without influence, and a privy counfellor without truf. The earl of Mar had the
confidence of his fovereign, and was drawiag to him the S.ot'? \& authority of goverument. Thefe were cruel hortifica- $-\underbrace{\text { - }}$. tions to a man of high rank, inordinate ambition, immenfe wealih, and who commanded numerous and warlike retainers. But he was yet to feel a ftroke llill more feverely exzruciating, and far more ceffuctive of his confequence. The opulent eftate of Mar, which Nary had erected into an carldom, and conferred on his rival, had been lodged in his family for fome time. He confidered it as his property, and that it was never to be torn from his houfe. This blow was at once to infult moft fenfibly his pride, and to cut moft fatally the finews of his greatnels.

After employing againft the earl of Mar thofe arts He accufes of detraction and calumny uhich are fo common in the lord courts, he diew up and fubferited a fermal memorial, James in which he accuted him of aiming at the fovereignty Stuart of of Scotland. This paper he pretented to the queen; but the arguments with which he fupforted his charge teing weak and inconclufive, fhe was the more confirmed in her attachment to her miniiter. Huntly then addrefling himielf to the earl of Bothwel, a man diffofcd to defperate courfes, engaged him to attempt involving the carl of Mar and the houfe of Hamilton in open and violent contention. Bothwell reprefented to Mar the enmity which had long fubfifted between him and the houfe of Hamilton. It was an obracle to his greatnefs; and while its deflruction might raile him to empts to the higheft pinnacle of power, it would be moft ac-aflafinate ceptabie to the queen, who, befide the hatred which lime princes naturally entertain to their fucceffors, was animated by particular caufes of cfience againtt the duke of Chatelherault and the earl of $\Lambda_{r 1 a n}$. He concluded his exhortation with makirg in unlimited offer of his moft fremuous fervices in the execution of this flagitious enterprife. The eanl of Mar, however, abhotring the bafonefs of the project, infpicious of the firicerity of the propofer, or laticfied that his eminence did not require the aid of fuch arts, $1 e j e c t e d$ all his advinces. Bothwel, difappointed on cne five, turned himfelf to the other. He practifed with the houfe of Hamilton to aflafmate the eall of Nar, whom they confidered as their greatelt enemy. The bufinefs, he faid, might be performed with enfe and expedition. The queen was accuftomed to hunt in the park of Falhland; and there the earl of $\mathbb{M a r}$, not fufpecting any danger, and ill aitended, might be overpewered and put to death. The perfon of the queer, at the fame time, might be feized; and by keeping her in cuftody, a fanction and fecurity might be given to their crime. The integrity of the earl of Arrart revolting againtl this confiracy, defeated its purpofes. Dreading the perpetration of fo cruel an action, and yet fenfible of the relolute determination of his friends, he wrote privately to the earl of Nar, informing him of his danger. But the return of Mar to his letter, thanking him for his intelligence, being intercepted by the confpirators, Arran was confined by them under a guard in Kenneilhonfe. He effected his efcape, however, and made a full difcovery of the plot to the queen. Yet as in a But iails matter fo dark he could produce no witneffes and roo in his atwritten vouchers to confirm his accufations, he, accord- tempt. ing to the fallion of the times, offered to prove his information, by engaging Bothwel in fingle combat. A:d though, in his examinations before the privy-council,

Suti: hiv love to the queen, his attachment to the earl of Mar, the atrocity of the fcheme he revealed, and, above ail, his duty and concern for his father the duke of Chatelherault, threw him into a pertarbation of mind which exprefled ifeelf violently in his (peech, his countenance, and his actions; yet his declarations, in gencral, were fo confiftent and firm, that it was thought advifible to take the command of the cafle of Dumbarton from the duke of Chatelherault, to confine the other confipirators to different prifons, and to wait the farther dilcoveries which night be made by time and accident.
The earl of Huntly, inflamed by thefe difappointments, invented other devices. He excited a tumult while the queen and the earl of Nar were at St Andrew's with only a few attendants; imagining that the latter would fally forth to quell the infurgents, and that a convenient opportunity would thus be afforded for putting him to the fword withuut detection. The caution, however, of the earl of Mar, defeating this purpofe, he ordered fome of his retainers to attack him in the evening when he thould leave the qucen; but the'e affafins being furprifed in their fation, Huntly afected to excufe their being in arms in a fufpicious place and at a late hour, by frivolous apolugies, which, though admitted, could not be approved.
$\Lambda$ bout this periud, too, letters were received by Mary from the pope and the cardinal of Lorrain, in conlequence of the intrigues of the earl of Huntly and the Catholic fuction. They preffed her to confider, that while thig nobleman was the moft powerful of her fubjefts, he was by far the moft zealous in the interetts of the church of Rome. They intreated ber to flatter him with the hope of her marriage with Sir John Gordon his fecond fon; held out to her magnificent promiles of money and military fupplies, if the would fet herfeif feriounly to recover to power and fplendour the ancient religion of her country; and recommended it to her to take meafures to deftroy the more ftrenuous Proteftants about her court, of whon a roll was tranfmitted to her, which included the name of her confidant and mimiter the earl of Mar. Thefe letters could not have reached her at a juncture more unfavourable to their fuccuts. The earl of Mar, to whom the communicated them, was encouraged to proceed with the greatef vigour in undermining the defigns and the importance of his enemies.
New incidents exafperated the animofities of the enemies of the earl of Mar and his orn. Sir John Gordon and the lord Ogilvie having a private difpute, happened to meet each other in the high freet of Edinburoh. They immediately drew their fwords; and the lord Ogilvie receiving a very dangerous wound, Sir John Gordon was committed to prifon by the magiftrates, The queen, at this time in Stirling, was informed by them of the riot; and while they expreffed a fear left the friends of the prifoner thould rife up in arms to give him his liberty, they mentioned a fufpicion which prevailed, that the partizuns of the lord Ogilvie were to affemble themfelves to vindicate his quarrel. The queen, in her reply, after commending their diligence. inlliucted them to continue to have a watch over their prifoner; made known her defire that the law fhould take its coarfe; and counfelled them to have no apprehenfions of the kindred of the parties at vatiance, but to rc-
ly on the eas of Mar for providing a fulf. ict: fuce $\underbrace{\text { Scotla } \%}$ fur their protection. Sir Juhn Gordon, however, found $\underbrace{\text { C- }}_{6 i i}$ means to break from his confinement; and dying into hut citap:s Aberdeenflize, filled the retainers of his family with his om piok complaints, and added to the difquiets of his father the for, earl of Hently.

The quecn, on returning to Edinburgh, held a confultation on aff iirs of Atate with her privy council; and foun after fet out on a progrefs to the northern parts of her kingdom. At Aberdeen fhe was met by the lady Huntly, a woman of deep diflimulation and of refined addrefs; who endeavoured to conciliate her affections, was prodigal of flattery, expreffed her zeal for the Popifh religion, and let fall infinuations of the great power of her luiftand. She then interceded with the queen for forgivenefs to her fon : and begged with a keen importunity, that he might be permitted to have the honour to kifs her hand. But Mary having told her, that the favour the had folicited could not be granted till her fon fhould retum to the prifon from which he had efcaped, and fubmit to the juftice of his country, the lady Huntly engaged that he fhould enter again into cuftody, and only intreated, that, inflead of being confined at Edinburgh, he fhould be conducted to the caftle of Stirling. This requert was complied with; and in the profecution of the bufinefs, a court of julticiazy being called, Sir John Gordon made his appearance, and acknowledged himelf to be the queen's pri- $6 / \mathrm{r}$ foner. The lord Glammis was appointed to conduct him and atto the cafle of Stirling. But on the road to this for-tempets to trets, he eluded the rigilance of his guards, hatiened aice areback, and gathering 1000 horfemen among his retain- bellion. ers, entrufted his fecurity to the firord.

In the mean time, the queen continued her progrefs. The earl of Huntly joined himfelf to her train. His ansiety to induce her to allow him to attend her to his houfe of Strathbogy was uncommon; his intieaties were even preffed beyond the bounds of propriety. The intelligence arrived of the efcape and rebel:ion of Sir Iohn Gordon. The behaviour of the father and the fon awakened in her the moft alarming fufpicions. Aifeinbling her privy-council, who, according to the faflion of thofe times, confituted her court, and attended fi.er perfon in her progreffes through her dominions; fhe, with their advice, corumanded her beralds to charge Sir John Gurdon and his adheeents to return to their allegiance, and to furrender to her their houfes of frength and caftles, under the penalies of high treafon and forfeiture. Difdaining now to go to the houfe of the earl of Huntly, where, as it afterwards appeared, that nobleman had made fecret preparations to hold her in captivity, fie advanced to Invernefs by a different route. In the cafle of Invernefs fhe propofed to take up her refidence; but Alexander Gordon the deputy governor, a dependent of the family of Huntly, refufed to admit her. She was terrified with the profpect of certain and imminent danger. Her attendants were few in number, the town was without walls, and the inhabiants were fufpected. In this extremity, fome thips in the river were kept in readinefs as a laft refuge; and She iffued a proclamation, commanding all her loval fubje ets in thole parts immediately to repair to her for her protedion. The Frafers and Monroes came in crowds to make her the offer of their fwords. The Clan Chattan, though called to arms by the earl of Huntly, for-

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5 -otland. fook his ftandard for that of their forcreign, when they $\xrightarrow[\sim]{\text { difcovered that his intentions were hoftie to her. Sise }}$ employed this Itrengtin in laying fiege to the caftie, which furreadered itielf on the finl allualt. The lives of the common foldiers were fared, but the deputy-governor was intantly executed. The queen, full of apprehenfions, returned to Aberdeen.

To intimidate the earl of Huntly, to revenge the troubles which his family had created to the queen, and to convince him that his utter ruin was at hand, a meafure infinitely humiliating was now concerted and put in practice. The earl of Mar religned the rich eftate of that name to the lord Erfkine, who laid claim to it as his right; and received in recompenfe, after its erection into an earldom, the territory of Murray, which made an extenfive portion of the poffeffions of the earl of Huntly.

The lady Huntly haftened to Abcrdeen to throw herfelf at the feet of her fovereign, to make offer of the moft humble fubmiffions on the part of her hufband, and to avert by every pofible means the downfal of his greatnefs. But all accefs to the queen was refufed her ; and the earl of Huntly was fummoned to appear in perfon before the privy council, to anfwer for his conduct, and to make a full refignation of all his caftles and fortreffes. He did not prefent himfelf, and was declared to be in open rebellion. A new proclamation was circulated by the queen to collect a fufficient ftrength to fubdue the infurgents. The command of her troops was given to the earl of Murray, who put them inflantly in motion. Huntly advancing towards Aberdcen to give them battle, was informed of their approach. He halted at Corrichie, folacing himfelf with the hope of a decifive victory. The army of the queen was the more numerous; but there were feveral companies in it in whom little confidence could be placed. Thefe the earl of Murray pofted in front of the battle, and commanded them to begin the attack. They recoiled on him in diforder, according to his expectation ; but a refolute band in whom he trufted, holding out their fpears, obliged them to take a different courfe. Their confufion and light made Huntly conceive that the day was his own. He therefore ordered his foldiers to throw afide their lances, and to rufh on the enemy fivord in hand. His command was obeyed, but with no precaucion or difcipline. When his men came to the place where the earl of Murray had fationed himfelf, the points of the extended fpears of his firm battalion put : fermination to their progrefs. The panic communicated by this unexpected refittance was improved by the vigour with which he prefled the affailants. In their turn they took to fightit. The companics of the queen's army which had given way in the beginning of the conflict were now difpofed to atone for their mifconduct; and taking a fhare in the battle, committed a figmal flaughter upon the retainers of the earl of Huntly. This nobleman himbelf expired in the throng of the purfuit. His fons Sir John Gordon and Adam Gordon were made prifoners, with the principal gentlemen who had affifted him.

Mary, on receiviug the tidings of this fuccefs, difcovered neither joy nor forrow. The paffions, however, of the earl of Murrxy and his party were not yet completely gratified. Sir John Gordon was brought immediately to trial, confefled his guilt, and was con-
demned to fuffer as a traitor. The fentence was ac. Scotland. cordingly executed, amidit a multitude of fpectators, whole feelings ware deepiy affected, while they confidcred his immature death, the manlinefs of his fpirit, and the vigour of his form. Adam Gordon, upon account of his tender age, was pardoned; and fines were levied from the other captives of rank according to their wealth. The lord Gordon, after the battle of Corrichie, fled to his father-in-law the duke of Chatelherault, and put bimfelf under his protection; but was delivered up by that noblemin, all whole endeavours in his favour were ineffectual. He was convicted of treafon, and condemned; but the queen was fatisfied with confining him in prifon. The dead body of the earl of Fiuntly was cariied to Edinburgh, and kept without burial, till a charge of high treafon was preferred againft him before the three eftates. An oftentatious difplay was made of his criminal enterprifes, and a verdict of parliament pronounced his guilt. His eftates, hereditary and moveable, were forfeited; his dignity, name, and memory, were pronounced to be extitict; his armorial enfigns were torn from the book of arms; and his pofterity were rendered unable to enjoy any offices, honour, or rank, within the realm.

While thefe fcenes were tranfacting, INary, who was fincercly folicitous to eftabliih a fecure amity between in interthe two kingdoms, opened a negotiation to effect an in-pofed beterview with Elizabeth. Secretary Maitland, whom fhe tween Maemployed in this bufinefs, met with a molt gracions reception at the court of London. The city of York wabeth, but appointed as the place where the two queens floould exprefs their mutual love and affection, and bind themfelves to each other in an indiffoluble union; the day of their meeting was fixed ; the fafhion and articles of their interview were adjufted; and a fafe-conduct into England was granted to the queen of Scots by Elizabeth. But in this advanced flate of the treaty it was unexpectedly interrupted. The difturbances in France, the perfecution of the Proteflants there, and the dangerous confequence which threatened the reformed countries, feemed to require Elizabeth to be particularly on her guard, and to watch with eagernefs the machinations of the adverfailes of her religion. On thefe pretences fhe declined for a time the projected interview; fending to Mary with this apology Sir Herry Sidney, a minitter of ability, whom the infructed to dive into the fecret views of the Scottifh queen. This was a fevere dilappointment to Mary ; but it is reafonable to believe, that Elizabeth acted in the negotiation without fincerity, and on principles of policy. It was not her intereft to admit into her kingdom a queen who had pretenfions to her crown, and who might there ftrengthen them; who might raife the expectations of her Catholic fubjects, and advance herfelf in their efteem; and who far furpaffedlier in beauty , and in the bewitching allurements of converfation and behaviour.

Amidst affairs of great moment, a matter of fmaller Chatelard ${ }^{664}$ confequence, but which is interelting in its circum- fatls in love ftances. deferves to be recorded. Chatelard, a gentle-with the man of family in Dauphiny, and a relation of the che-queen. valier de Bayard, had been introduced to Queen Mary by the fieur Damville, the heir of the houle of Montmorency. Polifhed manuers, vivacity, attention to pleafe, the talent of making verles, and an agreeable figure, were recommendations of this man. In the court they

Scotland. drew attention to him. He made himfelf neceflary in all parties of pleafure at the palace. His afliduitics dreev on him the notice of the queen ; and, at different times, hie did him the honour of dancing with him. IIs complaifance became gradually more familiar. He entertained her with his wit and good humour ; he made verfes on her beauly and accomplifhments; and her politenefs and coadefenfion inflilled into him other fentiments than thofe of gratitude and reverence. He could not beh id her charms without feeling their power : and inftead of fiiling in its birth the moit dangerous of all the pafions, he encouraged its growth. In an unhappy mument, he entered her apartment; and, concealing himielf under her bed, waited the approach of night. While the queen was undrefling, her maids difcovered his fituation, and gave her the alarm. Chatelard was difmiled with difgrace, but foon after received her pardon. The frenzy, however, of his love compelling him to repeat his crime, it was no longer proper to fhow any compaffion to him. The delicate fituation of Mary, the noife of thefe adventures, which had gone abroad, and the rude fufpicions of her fubjects, required that he fhould be tried for his offences and puaifhed. This imprudent man was accordingly condemned to lofe his head; and the fentence was put in execution.

The difagreeable circumftances in which Mary found herfelf involved from her quarrel with Elizabeth, the excefiive bigotry and overbearing fpirit of her Proteflant fubjects, together with the adventure of Chatelard, and the calumnies propagated in confequence of it, determined her to think of a fecond marriage. Her beauty and expectations of the crown of England, joined to the kingdom which fte already poffeffed, brought her many fuitors. She was addrelfed by the king of Sweden, the king of Navarre, the prince of Condé, the duke of Ferrага, Don Carlos of Spain, the archduke Charles of Auftria, and the duke of Anjou. Her own inclination was to give the preference, among thefe illuftrious lovers, to the prince of Spain ; but her determination, from the firft moment, was to make her wihes bend to other confiderations, and to render her decifion on this important point as agreeable as polfible to Queen Elizabeth, to the Englifh nation, and to the Proteflants in both kingdoms. Her fucceffion to the crown of England was the object neareft her heart; and Elizabeth, who wihed to prevent her from marrying altogether, contrived to imprefs on her mind an opinion that any foreign alliance would greatly obftruct that much defired event. She therefoee pitched on two of her own fubjects, whom fhe fucceffively recommended as fit matches for the queen of Scots; and the promifed, that on her acceptance of either her right of inheritance fhould be inquired into and declared. Lord Robert Dudley, afterwards earl of Leicefter, was the firft perfon propofed ; and except a manly face and fine figure he had not one quality that could recommend him to the Scottilh princefs. Whilit Mary received this fuitor with fome degree of compofure, the did not altogether seprefs her fcorn. "She had heard good accounts (hhe owned) of the gentleman ; but as Queen Elizabeth had faid, that in propofing a huiband to lerer, fle would confalt her honour, ftee aked what honour there could be in marrying a fubject ?" The Englifh queen then propofed to Mary anotner fuitor, left her thoughts Mould
return to a foreign alliance. This was Lord Damley, Scotiand. of the houie of Stuart itfelf, whofe bith was almott $\underbrace{}_{00}$ equal to her own, and whom the Scottilh princefs was she make induced to accept as a huiband by motives which we cho.ce or have detailed elfewhere. (See MImy.) Elizabeth, Lurd Darno howcrer, was not nore fincere in this propofal then in ley. the former ; for after permitting Darnley and his father the earl of Lenox to vilit Sco:land morely with the viev of diverting the attention of the queen fiom the continemt, fle threw, in the way of the marriage, evcry ob. facle which art and violence could contrive. When Ghe found Mary fo much entangled, that fie could fcarcely retract or make any other choice than that of Darnley, Elizabeth attempted to prevent her from going farther; and now intimated her difapprobation of that marriage, which fhe herfelf had not only originally planned, but, in thele latter flages, had forwarded by every means in her power. The whole council of Elizabeth declared againt the marriage. Even from her own fubjects Nary met with confiderable oppofition, An inveterate enmity had taken place between the duke of Chatelherault and the earl of Lenos, in confequence of which the former deferted the court, and very few of the Hamiltons repaired to it. The lord James Stuart, now earl of Murray, fought to promote the match with Lord Dudley. In confequence of this he was treated openly with difrefpect by the earl of Lenox ; he loft the favour of his fovereign, and Darnley threatened him with his vengeance when he fhould be married to the queen. John Knox in the mean time behaved in the Extravamoft furious manner, forgetting not only the meck and gant behapeaceable behaviour of a Chriftian, but the allegiance viour of of a fubject. This preacher even interfered with the marriage of his fovereign. He warned the nobility, that if they allowed a Papift or an infidel to obtain her perfon and the government of Scotland, they would be guilty, to the full extent of their power, of banilhing Jefus Chrit from the kingdom, of bringing down on it the vengeance of God, of being a curfe to themfelves, and of depriving their queen of all comfort and confolation. As Darnley was a Papift, he was of confeguence execrated by the whole body of Proteftants, laity as well as clergy; while, on the other hand, he was fupported by the earls of Athol and Caithnels, the lords Ruthven and Hume, and the whole Popifh faction.

It was exceedingly unfortunate for the queen, that neither Lord Darnley himfelf, nor his father the earl of Lenox, had any talents for bufinefs; and as they naturally had the direction of the queen's affairs, it is no wonder that thefe were very ill managed. Bat a fource of oppofition, more violent than any imperfections of their own, rofe againift them in the attachment which they difcovered to a perfon on whom the queen had of late beflowed ber favour with an imprudent prodigality. David Rizzio from a mean origin had raifed himlelf io diffinguifted eminence. He was born at Turin, where his father eamed a fubfiflence as a mufician. Varieties of fituation and adventure, poverty, and misfortunes, had taught him experience. In the train of the count de Morette, the ambaffador from the duke of Savoy, he had arrived in Scotland. The queen, defirous of completing her band of mufic, admitted him into her fervice. In this humble fation he had the dexterity to attract her attention ; and her French fecretary filling into dif. grace, frota negligence and incapacity, he was promoted

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Scrtan\% to difcharge the duties of that office. A neceffary and frequent admilion to her company afforded him now the fulleft opportunity of recommending himfelf to her; and while fhe approved his manners, fhe was fenfible of his fidelity and lis talents. His mind, however, was not fufficiently vigorous to bear fuch profperity. Ambition grew on him with preferment. He interfered in aftairs of moment, intruded limfelf into the conventions of the nobles at the palace, and was a candidate for greatnefs. The queen confulted him on the moft difficult and important bufinefs, and intrufted bim with real power. The fupplenefs, fervility, and unbounded complaifance which had characterifed his former condition, were exchanged for infolence, pride, and oftentation. He exceeded the moft potent barons in the flatelinefs of his demeanour, the fumptuoufnefs of his apparel, and the fplendour of his retinue. The nobles, while they defpifed the lownefs of his birth, and detefted him as a foreigner and a favourite, were mortified with his grandeur, and infulted with his arrogance. Their anger and abhorrence were driven into fury; and while this undeferving minion, to uphold his power, courted Darnley, and with officious affiduities advanced his fuit with the queen, he hattened not only his own ruin, but laid the foundation of cruel outrages and of

To the earl of Murray the exaltation of Rizzio, fo offenfive in general to the nation, was humiliating in a more farticular degree. His interference for the earl of Leicefter, the partiality he entertained for Llizabeth, his comedions with Secretary Cecil, and the favour he had fhown to Knox, had all contributed to create in Mary a fufpicion of his integrity. The practices of Darnley and Rizzio were thence the more effectual ; and the fulleft weight of their influence was employed to undermine his power. His paffions and difgufts were violent; and in his mind he meditzted revenge. Mary, aware of her critical fituation, was folicitous to add to her ftrength. Bothwel, who had been imprifoned for confpiring againft the life of the earl of Murray, and who had efcaped from confinement, was recalled from France; the earl of Sutherland, an exile in Flanders, was invited home to reccive his pardon; and George Gordon, the fon of the earl of Huntly, was admitted to favour, and was foon reinitated in the wealth and honours of his family.
As foon as Bothwel arrived, the earl of Murray infifted that he lhould be brought to trial for having plotted againft his life, and for having broke from the place of his confinement. This was agreed to; and on the day of trial Murray made his appearance with 800 of his adherents. Bothwel did not choofe to contend with fuch a formidable enemy; be thercfore fled to France, and a proteftation was made, importing that his fear of violence had been the caufe of his flight. The queen commanded the judge not to pronounce fentence. Murray complained loudly of her partiality, and engaged more deeply in cabals with Queen Elizabeth. Darnlev, in the mean time, preffed his fuit with eagernefs. The queen ufed her utmoft endeavours to make Murray fubferibe a paper exprefling a content to her marriage; but all was to no purnofe. Many of the nobility, however, fubfcribed this paper; and the ventured to fummon a convention of the eflates at Stirling, to whom fle opened the bufinefs of the marriage ; and who approved
ber choice, provided the Proteftant flould coaitinue to S: \&'and. be the eitablished religion of the country.

In the mean time ambaffadors anived from England, with a meflage importing Elizabeth's entire difapprobation and dilallowance of the queen's marriage with Lord Darnley. But to thefe ambaffadors Mary replied only, that matters weie gone tou far to be recalled; and that Elizabeth had no fulid caufe of difpleafure, fince, by her advice, the had fixed her affections not on a foreigner, but on an Englifiman; and fince the perfon fhe favoured was defcended of a diftinguifhed lineage, and could boaft of having in his veins the royal blood of both kingdoms. Immediately after this audience the created Lord Darnky a lord and a knight. The oath of knighthuod was adminitiered to him. He was made a baron and a banneret, and called Lord Armanagh. He was belied earl of Rofs. He then promoted 14 gentlemen to the honour of knighthood, and did lomage to the queen, without any relervation of duty to the crown of England, where his family had for a long time refided. His advancement to be duke of Albany was delayed for a flort time; and this was fo much refented by him, that, when informed of it by the lord Ruthven, he threatened to itab that nobleman.

In the mean time the day appointed for the afiembly of parliament, which was finally to determine the fubject of the marriage, was now approaching. The earl of Murray, encouraged by the apparent firmnefs of Elizabeth, goaded on by ambilion, and alarmed wilh the approbation beflowed by the convention of the eilates on the queen's choice of Lord Darnley, perceived that the moment was at hand when a decifive blow fhould be ttruck. To heighten the refentments of his friends, and to juflify in fome meafure the violence of his projects, he affected to be under apprehenfions of being affaffinated by the lord Darnley. His fears were fourded abroad; and he avoided going to Perth, where he affirmed that the plot againit him was to be carried into execution. He courled the enemies of Damley with ${ }_{\text {An }}{ }^{678}$ afociaunceafing affiduity; and united to him in a confederacy tion againft the duke of Chatelherault, and the earls of Aıgyle, the queen Rothes, and Glencairn. It was not the fole object of and Darno their affociation to oppofe the marriage. They engaged ley. in more criminal enterprifes. They meditated the death of the earl of Lenox and the lord Darnley; and while the queen was on the road to Calander place to vifit the lord Livingfton, they propofed to intercept her and to bold her in captivity. In this itate of her bumiliation, Murray was to advance himfelf to the government of the kingdem, under the character of its regent. But Mary having received intelligence of their confpiracy, the earl of Athol and the lord Ruthven fuddenly raifed 300 men to protect her in her journey. Defeated in this fcheme, the carl of Murray and his aflociates did not relinquilh their cabals. They projected new achievements; and the nation was filled with alarms, fufpicions, and terror.

Amidft the arts employed by the Scottifl malcon- ${ }^{677_{2}}$ tents to inflame the animufities of the nation, they for- ces raifed got not to infill on the dangets which threatened th:e by the ProProteftant religion from the advancement of I.ord Darn- teftants. ley, and foom the rupture that mivit cnfue with England. Letters were everywhere diiperfed among the faithful, reminding them of what the eternal God had wrought lor them in the abolition of idolatry, and ad-

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Eenetind monifhing them to oppofe the reftoration of the mafs. A fupplication wes prcfented to the queen, complaining of idolaters, and i: sifting on their punilhment. In the prefent juncture of aftairs it was received with unufual refpect : and Mary inltructed the Popilh ecclefiattics to abilain from gring offence of any kind to the Proteftants. A priell, however, having celebrated the mafs, was taken by the brethrea, and expoled to the infults and fury of the populace at the market-place of Edinburgh, in the garments of his profeflion, and with the chalice in his hand; and the queen having given a check to this tumultuous proceeding, the Protellants, riang in their wrath, were the more confirmed in the belief that fhe meant to overthrow their religion. The mof learned and able of the clergy held frequent confultatio st together; and while the nation was difturbed with dangerous ferments, the general aftembly was callef to deliberate on the affairs of the church. Their hope of fuccefs being proportioned to the difficulties in the fituation of the queen, they were the lefs fcrupulous in forming their refolutions; and the commififioners, whom they depuied to her, were ordered to demand a parliamentary ratification of their defires.

They infirited, that the mafs, with every remnant of popery, fhould be univerfally fuppreffed throughout the kingdom; that in this reformation, the queen's perfon and houfehold fhould be included; and that all Papitts and idolaters fhould be punifhed on conviction according to the laws. They contended, that perfons of every defcription and degree fhould refort to the churches on Sundey, to join in prayers, and to attend to exhortations and fermons; that an independent provifion fhould he afizned for the fupport of the prefent clergy, and for their fucceifors ; that all vacant benefices fhould be conferred on perforts found qualified for the miniltry, on the trial and examination of the fuperintendants; that no bifhopric, abbey, priory, densery, or other living, having many churches, fhould be befoxed on a finsle perfon ; but that, the plurality of the foundation being diffulved, each charch flould be provided with a minifier; that glebes and manfes flould be allotted for the refidence of the minilers, and for the reparation of churches; that no charge in fchools or univerfities, and no care of education, either public or private, fhould be initruted to any perfon who was not able and found in doctrine, and who was not ap: roved by the fuperintendants; that all lands which had formerly been devoted to hofpitality, fhould again be made fublervient to it; that the lands and rents which formerly belonged to the monks of every order, with the annuities, aiterages, obits, and the other emolumests which had appertained to priens, flould be emploved in the maintenance of the poor and the upholding of chools; that all horrible crinues, fuch as idolatry, blafplemv, breaking of the fabbeth, witchcraft, forcery, inchantment, adultery, manifeit whoredom, the beeping of brothels, murder, and oapreffion, fhould be punifhed with feverity; that judg-s fhould be appointed in every diffrict, with powers to pronounce fentences and to execute them ; and, in fine, that for the eafe of the labouring hufband-nen, fome order fhould be devifed concerning a reafonable payment of the tythes. of the of moderation and hamanity. She was ready to agree queen. with the three eftates in eftablifhing the refurmed reli-
gion over the fuijects of Scotland; and the was iteadily Scotiat d. refolved not to hazard the life, the peace, or the fortunc, of any perfon whatevcr on account of his opinions. A to herfelf and her houfehold, fhe was perfuaded that her people would not urge her to adopt tenets in contradiction to her own confcience, and thereby involve her in remorfe and uneainefs. She had been educated and brought up in the Romith faith; the conceived it to be founded on the word of God; and the was defirous to continue in it. But, fetting afide her belief and religious duty, the ventured to allure them, that the was convinced from political reafons, that it was her interef to maintain herself firm in the Catholic perfuafion. By departing from it, fhe would forfeit the amity of the king oi France, and that of other princes who were now frongly attached to her; and their ditaffection could not be repaired or comperifated by any new alliance. To her fubjects the left the fullefi liberty of confcience; and they could not furely refuic to their forereign the fame right and indulgence. With regard to the patronage of benefices, it was a prerogative and prowerly which it would ill become her to violate. Her ncieffities, and the charge of her royal dignity, required her to retait in her hands the patrimony of the crown. After the purpofes, however, of her flation, and the exigencies of government, were fatisfied, fhe could not object to a fpecial aftignment of revenue for the raintenance of the miniftry; and, on the fubject of the other articles which had been fubmitted to her, the was willing to be directed by the three eltates of the kingdom, and to concur in the refolutions which thould appear to them molt seafonable and expedient.

The clergy, in a new affembly or convention, exprefo 675 fed great difpleafure with this return to their addrefs. The PateThey took the liberty of informing the queen, that the difpeafed doctrines of the reformation which the refufed to adopt, with her were the religion which had been revealed by Jefusanfwer. Chrift, and taught by his apollles. Popery was of all perfuafions the leaft alluring, and had the fewelt recommendations. In antiquity, confent of people, authority of princes, and number of profelytes, it was plainly inferior to Judaifm. It did not even reft on a foundation fo folid as the doctrines of the Koran. They icquired her, therefore, in the name of the etermal God, to embrace the means of attaining the truth, which were offered to her in the preaching of the word, or by the appointment of pullic difputations between them and their adverfaries. The terrors of the mals were placed before her in all their deformity. The performer of it, the action itfelf, and the opinions expreffed in it, were all pronounced to be equally abominable. To hear the mafs, or to gaze on it, was to commit the complicated crimes of facrilege, blafphemy, and idolatty. Her delicacy in not renouncing her opinions from the apprehention of offending the king of France and her other allies, they ridiculed as impertinent in the hag' elt degrec. They told her, that the true religion of Chritt was the only means by which any confoderacy coul dendure; and that it was, far aore precious than the alliance of any poientate whatever, as it would bring to her the friendflit of the King of kings. As to patronayec, being a portion of her patrimony, they intended not to deframd her of her rights: but it was their julrement, that the fuperintendants oughe to make a trial of the qualifications of candidates for the miniltry;

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Sctiland. $\xrightarrow{-}$
and as it was the duty of the patron to prefent a perfon to the benerice, it was the bufinefs of the church to manage his inllitution or collation. For without this reltraint, there would be no fecurity for the fitiefs of the incumbent ; and if no trials or examinations of miniffers took place, the church would be filled with mifrule and ignorance. Nor was it right or juft that her majefty fhould retain any part of the revenue of benefices; as it ought to be all employed for the ufes of the clergy, for the purpofes of education, and for the fupport of the poor. And as to her opinion, that a fuitaole affignment fhould be made for them, they could not but thark her with reverence: but they begged leave to folicit and importune her to condefcend on the particulars of a proper fcheme for this end, and to carry it into execution ; and that, taking into due confideration the other articles of their demands, fhe would ftudy to comply with them, and to do juitice to the religious eftablilliment of her people.

676 They rife in arins, but are
foon quell$t d$.

From the fears of the people about their religion, difturbances and infurrections were unavoidable; and before Mar: had given her anfwer to the petitions or addrefs of the clergy, the Proteflants, in a formidable number, had marched to St Leonard's Craig ; and, dividing themfelves into companies, had chofen captains to command them. But the leaders of this tumult being apprehended and committed to clofe cuflody, it fubfided by degrees; and the queen, on the interceffion of the magiltrates of Edinburgh, inftead of bringing them to trial, gave them a free pardon. To quiet, at the fame time, the apprehenfions which had gone abroad, and to controvert the infidious reports which had been induftrioufly fpread of her inclination to overturn the reformed doetrines, fhe repeatedly iffued proclamations, affuring her fubjects, that it was her fixed determination not to molef or difturb any perfon whatever on account of his religion or confcience; and that fhe had never prefumed even to think of any innovation that might endanger the tranquillity or prejudice the happinefs of the commonwealth.
677
Intrigues of the rebelliousnobles with Eliz:beth.
lief they requefted, but affured them by Randolph of Scotland. her efteem and favour while they fhould continue to uphold the reformed religion and the comnection of the two nations. Flattered by her affurances and generofity, they were itrenuous to gain partizans, and to difunite the friends of their fovcreign; and while they were fecretly preparing for rebellion, and for trying their frength in the field, they difleminated among the people the tenets, That a Papift could not legally be their king; that the queen was not at liberty of herfelf to make the choice of a hufband; and that, in a matter fo weighty, fhe ought to be entirely directed by the dotermination of the three eftates affembled in parlia. ment.

Elizabeth, at the fame time, carrying her diflimu- Treachery lation to the molt criminal extremity, commanded Ran- of Elizadolph to afk an audience of Mary; and to counfel her beth. to nourifh no fulpicions of the earl of Murray and his friends; to open her eyes to their fincerity and honour ; and to call to mind, that as their fervices had hitherto preferved her kingdom in repofe, her jealoufies of them might kindle it into combuftion, make the blood of her nobles flow, and hazard her perfon and her crown. Full of altoniifrnent at a meflage fo rude and impropcr, the queen of Scots defired him to inform his mifitiff, that fhe required not her infructions to diftinguifh between patriotifm and treackery; that fhe was fully fenfible when her will or purpofe was refifted or obeyed; and that fhe poffeffed a power which was more than lufficient to reprefs and to punifh the enormities and the crimes of her fubjects. The Englifh refident went now to the earl of Lenox, and; the lord Darnley, and charged them to return to England. The former exprefied an apprehenfion of the feverity of his queen, and fought an affurance of her favour before he could venture to vifit her dominions. The latter, exerting greater fortitude, told him, that he acknowledged no duty or obedience but to the queen of Scots. The refident treating this anfwer as difrefpectful to Elizabeth, turned his back upon the lord Darnley, and retired without making any reverence, or bidding him adieu.

The behaviour of Elizabeth, fo fierce and fo perfidious, was well calculated to confirm all the intentions of Mary ; and this, doubtlefs, was one of the motives by which fhe was actuated. But while the queen of Scots was cager to accomplifh her marriage, the was not inattentive to the rifing troubles of her country. The parliament which fhe bad appointed could not now be held: it was thercfore prorogued to a more diffant period; and the violence of the times did not then permit it to affemble. By letters fue invited to her, with all their retainers, the moft powerful and moft eminent of her fubjects. Bothwel was again recalled from France; and by general proclamation fhe fummoned to her ftandard the united force of her kingdom. The cafle of Edinburgh was likewife amply provided with flores and ammunition, that, in the event of misfortunes, it might afford her a retreat and defence. The alacrity with which her fubjects flocked to her from every quarter, informed her of her power and popularity ; and while it ftruck Murray and his adherents with the danger to which they were expofed, it declared to them the opinion entertained by the nation of the iniquity and the felfifhefs of their proceedings.

On the 2gth of July 1565 , the ceremony of marriage

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Scotland, riage between the queen and Lord Darnley was perform$\underbrace{}_{\text {ed. The latter had been previounly created duke of }}$

679
Marri ge of Mary with Lord Darnley.

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He is proclaimed king of Scotland. Albany. The day before the marriage, a procl mation was publifhed, commanding him to be thyled king of tho realm, and that all letters after their marriage fhoulc he directed in the names of her hutband and herfelf. The day after it, a new proclamation was iffued confirming this act: he was pronounced king by the found of trumpets, and affociated with the queen in her government. This mealure feems to have been the effeet of the extreme love the queen had for her hufband, which did not permit her to tee that it was an infringement of the conftituion of the kingdom; though perhaps fhe might alfo be urged to it by the prefling eagernefs of Lord Darnley himfelf, and the paztial councils of David Kizzio. The earl of Murray male loud complaints, remonftrated, that a king was impofed on the ration without the confent of the three eflates, and called on the nation to arm againft the beginnings of tyranny. The malecontents accordingly were immediately in arms; but their fuccefs was not anfwerable to their wilhes. The bulk of the nation were fatisfied with the good intentions of their fovereign, and fhe herfelf took the earlieft opportunity of crufting the rebellion in its infancy.
68x The earl of Murray was declared a traitor; and fimilar The rebel- fleps were taken with other chiefs of the rebels. She licus nobles then took the field againft them at the head of a confidriven into England.
derable army: and having driven them from one place to another, obliged them at laft to take refinge in England. Queen Elizabeth received them with that duplicity for which her conduet was fo remarkable. Though the herfelf had countenanced, and even excied them to revolt, fhe refufed to give an audience to their deputies. Nay, fhe even caured them to iffine a public declaration, that neither fhe, nor any petfon in ber name, had ever excited them to their rebellious practices. Yet, while the public behaviour of Elizabeth was fo acrimonious, fhe afforded them a fecure retreat in her kingdom, treated the earl of Murray in private with refpect and kindnefs, and commanded the earl of Bedford to fupply him with money. Mary, however, refolved to proceed againt the rebels with an exemplary rigour. The fubmiffions of the duke of Chatelherault alone, who had been lefs criminal than the reft, were attended to. But even the favour which he obtained was precarious and uncertain; for he was comVol, XVIII. Part II.
manded to ufe the pretence of fici nei, .ad to pafs for S atiand. iome time into foreiga countries. A parliament was called; and a fummons of teefon 'eeing evecuted againit the earls of Argyle, Glenc.irn, and Rothes, wi h others of the priacipul rebels, tiey were command. 1 to afpear before the thee eftates : in default of which their lives and eftates were declared turteied.

In the mean time Thri moton the Englifh ambafo fador iolicited the pardon of the rebe's; which Mary was at firft inclined to grant. By tie e jerfaation of the court of Fraice, however, fhe was nut or ly induced to proceed ayaint them wih rigour, but ac eded to the traty of Bayonne, by which the deftruction of the Proteftants was determin d. Tl is meafure filled the who!e court with terror and dimay. The rebels were acquainted with the danger cf therr fituation; and 1 ing now readered deff erate, they were re.dy to e' gnge in the moft atrocions defigns. Unhappily, the fituation of affairs in Scotiand rendered th:e accomplifment of their purpoles but too eafy. Tiokut difguts h d taken place between the queen and her hulband. Her fondne/'s had been excefive; but the foon perceived that the quar ities of his mind were not proportioned to his perfonal accomplihments. He was pruad difdainful, and fufaicious, hunt No perfuafons could crrect his obftinacy; and he was at the fame time giddy and obblinate, inflent and mean. The queen in confequence began to lkow an indifference towards him; which he took care to asgment, by fhowing the like ind:ference towards h.r, and engaging in low intrigues and amours, indulging himfelf in difipation and riot, \&cc. The defee of domini in was his ruling patfion however; and the queen, finding lis tutal incapacity for exercifing his power to any good purpofe, had excluded him from it allo ether. H1e was therefore at prefent a proper objeci for the machinations of the reb-ls, and readily entered iato an agreement with them to depofe the queen; ranly thinking by that means to fecure the crown to himfelf. As the parliament was foon to affemble, in which the rehels had every reafon to believe that they would be condemmed for high treafon, it was neceflary that the kingdom hould be thrown into diforder before that time, olterwife their fate was inevitable. Practifing on the imbecility of Darnley, they perfuaded him that a criminal correlpondence fubfilted between the queen and David Rizzio (R). For this reafon the king refolved on his deftruction ; and the 4 X
confpirators

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 between
the queen and her hufband



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(R) That there fubfifted a criminal intercour?e between Mary and Rizzio is a fcandal which is now given up by her enemies. It feems to reft on the authority of Buchanan and Knox; and their evidence in this ca.e is clearly of no weight, not only from their being the ftrenuous partifans of her adverfaries, but from the multitude of falfehoods which they anxioufly detail to calumniate her. The love fhe felt for Darnley was extreme, and their acquaintance commenced a month or two after the appointment of Rizzio to be her fecretary for French aff i:s. She became pregnant foon after her marriage; and it was during her pregnancy that Rizzio was affalmated. Thefe are ftriking prefurntions in her favour. And what feems to put her innocence out of all queftion, is the filence of the fivies and refidents of Elizabeth with regard to this pretended amour; for, if there had been any thing real in it, they could not have made their court to their queen m re effectually than by declarit g to her its particulars; and their want of delicacy, fo obfervable in other circuraftances, would have induced them on this occafion to give the greateft foulrefs and deformity to their information.

It appears that Rizzio was ill favoured, and of a difagreeal le form. Bucharan fays of him, "Non faciem cultus honeftabat, fed facies cultum deffruchat. Hijf. Scor. lib. wii. This expreTion is very frong; but it would have little weight if other authors had not concurred in giving a fimilar d feription of Rizzio. In a book intitled, "Le Livre de la Morte de la Reyne d'Ecoffe, and printed in $t$ ' e year 1587 , he is faid to be " difgracie de corpe." Canfin, ap. Jebb, p. 37. This work, too, while it records the unkindnefs of nature to his perfon, has obl-rved, that

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Scotand. confpiraiors hoped thus not only to get an indemnity to $\xrightarrow{-r}$ themfelves, but to effect a total revolution at court, and the entire humiliation of Bothwel, Huntly, and Athol, who were the ailociates of Rizzio. In order to fave themfelves, however, they engaged the king to fubfcribe a bond, aftirming that the project of affafinating Rizzio was altogether of his own devifing; acknowledging that he had folicited them to take a part in it, from the apprehenfions that refifance night be made to him; and agreeing, on the word and honcur of a prince, to protect and fecure them againt every hazard and injury 10 which they might be expoled from the achievement of his enterprife. Having procured this fecurity, and having allured the ea:l of Lenox the king's father to approve of their meafures, they adjufted the method of the projected murder; and difpatched a meffenger to the Englilh frontier, advertifing the earl of Murray and the rebels of their intentions, and inviting them to return to the court.

Un the 9th day of March, ahout feven o'clock in the evening, armed men, to the number of 500 , furrounded the palace of Holyroodhoufe. The earl of Morton and the lord Lindfay entered the court of the palace, with 160 perfons. The queen was in her chamber at fupper, having in her company her natural filter the countefs of Argyle, her natural brother Robert commendator of Holy roodhoufe, Beton of Creich mafter of the houfehold, Arthur Erßine, and David Rizzio. The king entering the apartment, feated himfelf by her fide. He was followed by the lord Ruthven, who being wafted with fickneis, and cafed in armour, exhibited an appearance that was hideous and terrible. Four ruffians attended him. In a hollow voice he commanded Rizzio to leave a place which did not become him. The queen, in aftowifhment and confternation, applied to the king to unfold to her this myftcrious enterprife. He affected ignorance. She ordered Ruthven from her prefence, under the penalty of treafon; declaring at the fame time, that if Fizzio had committed any crime, fhe would produce him before the parliament, and punih him according to the laws. Ruthven drawing his dagger, advanced towards Rizzio. The queen rofe to make an exertion of her authority. The unfortunate franger laid hold of her garments, crying out for juftice and mercy. Other confpirators, rulhing into the chamber, overturned the table, and incrafed the difmay and cunfufion. Loaded piftols were prefented to the bofom of the queen. The king held her in his arms. George Duglas, fnatching the dagger of his fovereign, plunged it into the body of Rizzio. The wounded and fcreaming victim was dragrged into the antichamber; and fo eager were the aff ffin s to complete their work, that he was torn and man let with 56 wounds.

While the quect was prefling the king to fatisly her inquiries into the meaning of a deed fo exccrable, Ruth-
ven returned into their prefence. She gave a full vent Scotiard. to indignation and reproach. Ruthren, with an intolerable coldnefs and deliberation, informed her, that Rizzio had been put to death by the counfel of her hufband, whom he had difhonoured; and that by the perfuafion of this minion fhe had refufed the crown-matrimonial to the king, had engaged to re-eftablifh the ancient religion, had refolved to punifh the earl of Murray and his friends, and had entrutted her confidence to Bothwel and Huntly, who were traitors. The king, taking the part of Ruthven, remonftrated againft her proceedings, and complained that from the time of her familiarity with Rizzio, the had neither regarded, nor entertained, nor trufted him. His fufpicions and ingratitude fhocked and tortured her. His comnection with the cunfpirators gave her an ominous anxiety. Apprehenfions of outrages fill more atrocious invaded her. In thefe agitated and miferable moments fhe did not lofe herfelf in the helplefinefs of forrow. The loftinefs of her fpirit communicatcd relief to her; and wiping away her tears, fle exclaimed, that it was not now a feafon for lamentation, but for revenge.

The earls of Huntly, Bothwel, and Athol, the lords Fleming and Levingiton, and $\mathrm{Si}^{\text {a }}$ James Balfour, who were obnoxious to the confpirators, and at this time in the palace, found all refifance vain. Some of them eluding the vigilance of Morton, made their efcape; and others were allowed to retire. The provoft and magiftrates of Edinburgh getting intelligence of the tumult, or lered the alarm bell to be rung. The citizens, 6 CS6 tumult, ordered the alarm bell to be rung. The citizens, The queea
apprehenfive and anxious, approached in crowds to in-corfined quire into the welfare of their fovereign ; but fie was ard threatnot permitted to addrefs herfelf to them. The con- ened. fpirators told her, that if the prefumed to make any harangue, they would "cut her in picces, and caft her over the walls." The king called to the people that fhe was well, and commanded them to difperle. The queen $u$ as fhut up in her chamber, uncertain of her fate, and without the cenfolation or attendance of her women.

Is the morning a proclamation was iffued by the king, without the knowledge of his queen, prohibiting the meeting of parliament, and ordering the members to retire from the city. The rebellious lords now returned from England, and arrived at Edinburgh within 24 hours after the affafination of Rizzio. The She ${ }^{657} 7$ queen, knowing of how much confequence it was for vous in her to gain the earl of Murray, invited him to wait vain to gain on her. Notwithftanding the extrome provecation the eark of which fle had met with, Mary fo far commanded her paffions, that fle gave him a favcurable reception. After informing him of the rudenefs and fevcrity of the treatment fhe had received, the queen obferved, that if he had remained in friendfhip with her at home, he would have protected her againft fuch exceffes of hardihip
he was in his old age when he made a figure in the court of Mary. "Elle traittoit ordinairement avec David Ficcio fon fecretairc, homme aagé et prudent, qui poffedoit fon oreille." Ibid. And other authors give their tefitimonies to the farue purpofe.

It is probable that the panegyrits of Mary exaggerate fomewhat the imperfcetions as well as the good qualities of Rizzio. But there feems in general to he no reafon to doubt lis fidelity and talents, any more than his uglinefs and lenility. He had therefore a better iile to be her fecretary than her lover., It is an abfurdity to think that a queen lo young and beautiful would yield berfelf to defornity and old age.

## SCO

Scoliand. La: Lhini and infult. Murray, with a hypocritical compafion, Bed abundance of tears; while the queen feemed to entertain no doubt of his fincerity, but gave him room to hone for a full pardon of all his offences. In the man u:ne, however, the confpirators held frequent confuliztions together, and in thefe it was debated, whether they thould hold the queen in perpetual captivity, or put her to death; or whether they flould content themfelves with committing her to clofe cuftody in Stitling caftle till they flhould obtain a parliamentary fanction to their proceedings, eftablifh the Proeeltant religion by the total overthrow of the mafs, and invelt the king with the crown-matrimonial and the govern698 ment of the kingdom.
But prerait on the wreary now began to perceive the futl extent of her kiaz to the wretchednefs; and therefore, as her laft refource, ankis to plied to the king, whom the treated with all thofe blanabandon dithments ufually employed by the fair fex when they the caufe of the conepirators. want to gain the afcendency over the other. The king, who, with all his faulte, had a natural facility of temper, was eafily gained over. The confpirators were alarmed at his coldnefs, and endeavoused to fill his mind with fears concerning the duplicity of his wife : but, finding they could not gain their point, they at laft began to treat for an accommodation. The king brought them a meffage, importing, that Mary was difpofed to bury in oblivion all memory of their tranfgreffions; and he offered to conduct them into her prefence. The earls of Murray and Morton, with the lord Ruthven, attended him into her prefence; and, falling on their knees before the queen, made their apologies and fubmiffions. She commanded them to rife; and having defired them to recollect her abhorrence of cruelty and rapacity, the affured then with a gracious air, that inftead of defigning to forfeit their lives, and pofiefs herfelf of their eitates, the was inclined to receive them into favour, and to grant a full pardon, not only to the nobles who had come from England, but to thofe who had affafinated David Rizzio. They were accordingly ordered to prepare the bonds for their fecurity and forgivenefs, which the guten promifed to take the earlieit opportunity of fubfribing; but in the mean time the king obferved, that tbe confpirators ought to remove the guards
699 which they had placed around the queen, that all fuAnd efrapes ficion of reftraint might be removed. This meafure from them. could not with any propriety be oppored, and the guards were therefore difmiffed; on which the queen, that very night, left her palace at midnight, and touk the road to Dunbar, accompanied by the king and n few attendants.

The news of the queen's efcape threw the confpirators into the utmof confternation; as the immediately iffued proclamations for her fuljecects to attend her in arms, and was powerfully fupported. They fent therefore the lord Semple, requefting, with the utmoth humility, her fubfeription to their deeds of pardon and fecurity; but to this meffage fle returned an unfavourable anfiver, and advanced towards Fdinburgh with an armv of 8000 men. The confpiraters now fled with 690 the utmoft precipitation. Even John Knox retired to The rebel- Kyle till the florm fluuld blow over. On the queen's lious nobles arrival at Edinburgh, a privy council was in?antly rallare decla- ed, in which the confuirators were charged to appear
red traitors. red traitors. as guilty of murder and treafon; their places of Atrength were orderend to be furrendered to the officers of the

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crown; and their eftates and poffemions were made lit. Scotand able to confifcation and forfciture.

But while the queen was thus cager to punifh the confpirators, the was fenfible that fo many of the nobility, by uniting in a common caufe, misht raile a poserful party in oppofition to her; for which reafon The endeavoured to detach the earl of Murray from the reft, by making him oflers of pardon. Sir James Melvil accordingly pledgcd lomfelf to produce his pardon and that of his adherents, if he would ieparate from Morton and the confpirators. He accordingly became cold and diftant to them, and exclaimed againft the murder as a moft execrable action; but notwithtlanding his afiected aniger, when the conipirators fled to England, he furnihed them with letters of recommendation to the errl of Bedford. After the flight of the confpi-Shameful rators, the king thought it neceffary for him to dehy prevaricahis having any fhare in the action. He therefore em- tion of the braced an apportunity of declaring to the privy council king. his toial ignorance of the confpiracy again? Rizzio; and not fatisfied with this, he, by public proclamations at the market-place of the capital, and over the whole kingdom, proteited to the people at large that lie had never bellowct on it, in any degree, the fanction of bis commind, content, affiftance, or approbation.

In the mean time the queen granted a full and am-Murray ple pardon to the earls of Murray, Argyle, Glencairn, and fome and Rothes, and their adherents; but towards the con- ${ }^{\text {others of }}$ fpirators the remained inexorable. This lenity, to Mur- are pardons ray efpecially, proved a fource of the greateff inquietude ed. to the queen; for this nobleman, blind to every motive of action ditinct from his own amuition, began to contrire new plots, which, though difappointed ior a time, fron nperated to the deftruction of the queen, and almoll to the ruin of the nation.

On the 19th of Juse 1566 , the queen was delivered Birth of of a prince, who received the name of James. This James VI. happy event, however, did not extinguilh the quarrel ${ }_{5} 66$. betwixt her and the king. His detire to intrade himfelf into her authority, and to fix a ftain on her honour, his thare in the murder of Rizzio, and his extreme meannefs in publicly denving it, could not fail to impiefs her with the ftre -geit fentiments of deteftation and contempt. Unable, however, totally to diveft herfelf of regard for him, her behaviour, though cold and diffant , was yet decent and refpectful. Caftelnau, at this A partias time ambaflador extraordinary from France, conceived reconciliathat a reconciliation might be effected, and employed tween the himfelf for fome time in this friendly oflice. Nor were king and his endeavours altngether ineffectual. The king and quicea. queen fpent two nights together ; and proceeded, in company with each other, to Mcggatland in "iweeddale, in order to eniov the diverfion of the chace, attended by the earls of Huntly, Bothwel, Murray, and other nobles. Thence they pafted to Edinburgh, and then took the 675 . road to Stirling. Had the king been endursed with Which is any prudence, he would have made the belt ule of this broken of opportunity to regain the affections of his queen; but, b; the inftead of this, finding that he was not immediately in-prudent betrufted with power, his peevifhnefs fuggefted to him the haviour. defigu of gning abroad. To Munfieur du Croc, the French refident, who had attended Mary at Stirling, be ventured to cominunicate his chimerical project. This ftatefinan reprefented to him its nildnefs and inefficacy; and could fearcely believe that he was feri-

Scolleri. ous. To his father the earl of Lenox, who paid him a vifit at this place immediately on Mary's departure from it, he likevife communicated his intention ; and all the intreaties, arguments, and remonftrances of this nobleman to make him relinquifh his defign, were without fuccefs. He provided a veffel, and kept it in readinefs to carry him from Scotland. The earl of Lenow, after returning to Glafgow, where he ufually refided, gave way to his pate:zis anxieties, and folicited the queen by letter to interfere with her authority and pertuafiors; and on the evening of the day in which fhe received this difpatch, the king alighted at Holyroodhoufe. But the names of the nobles who were with the queen being annouticed to him, he objected to three of them, and infifted that they thould be ordered to depart, before he would enter within the gates of the palace. The queen, alarmed with a demeanour fo rude and fo unwarrantabie, condefeended to leave her company and her palace to meet him; and it was with great difficulty that the was able to entice him into her own apartment. There he remained with her during the night. She communicated to him his father's letter, and employed every art and blandifiment to engage him to abandon his perverfe defgn. But he gave her no fatisfaction. He was unmoved by her kindnefs; and his filence, dejection, and peevifthefs, augmented her diffrefs. In the murning, the called her privy council to affemble in the palace, and invited to her Monfieur du Croc the French envoy. By the bifhop of Rols fhe explained the intention of the king, and made known the difpatch of the carl of Lenox. The privy council were urgent to know the reafons of a voyage that appeared to them fo inevplicable; and earneftly preffed the king to unbofom himfelf. If his refolution proceeded from dicontent, and if there were perfurs in the kingdom. who had given him caufes of offience, thiey affured him, that they were ready, upon his information, to take the neceflary fieps to make him eafy and happy. No guality or rank thould exempt thofe from inquiry and punifhment who had committed mifdemeanors againt him. This, they faid, confifted with his honour, with the honour of the queen, and with their own. If, however, he had received no fufticient provocation to juftify his behaviour, and if he had no title to complain of actual injuries, they admowifhed him to remember, that his fiight from a queen fo beautiful, and from a kingdom fo ancient and noble, would expofe him to the greatell ridicule and difgrace. They pointed out the happinefs of his forture, and comifelled him not to part lightly with all its flattering advantages. The queen herfelf, taking his hand into her's, and preffing it with affection, befought him to fay by what act or deed fhe had unfortunately induced him to conceive fo fatal a purpofe. Her memory did not reproach her with any crime or indifcretion which affected his honour or her integrity : yet if, without any defign on her part, the had incurred his difpleafure, the was diffoofed to atone for it ; and fhe begged him to fpeak wih eistive freedom, and not in any degree to fpare her. Monfieur du Croc then addrefied him, and employed his intereft and perfuafions to make him reveal his inquietudes. But all this refpectful attention and ceremonious duty were ineffecfual. Obilinately froward, he refufed to confefs that he intended any woyage, and made no mention of any reafons of difcontent.

He yet acknowledged with readinef, that he could not Scotimnd. with juftice accufe the queen of any injury or offience. Opprefied with uneafinefs and perturbation, he prepared to retire; and, turning to her, faid, "Adieu, Madam ! you thall not fee me for a long time." He then bowed to the Fiench envoy, and to the lords of the privy council.

He haftened back to Siirling, leaving the queen and her council in furprife and aftonidhment. They refolved to watch his motions with anxiety, and could not conjecture what ftep he would take. Mary, to prevent the effect of rumours to her difadvantage, dilpatched a courier to advertife the king of France and the queenmother of his conduct. It was not poffible that a prince fo meanly endowed with ability could make any impreffion on her allies. Nor did it appear to be in his power to excite any domeffic infurrection or difturbance. He was univerfally odious; and, at this time, the queen was in the higheft eftimation with the great body of her fubjects. Aficr paffing fome days at Stirling, he addrefled a letter to the queen, in which, after hinting at his defign of going abroad, he infinuated his reafons of complaint. He was not trufted by her with authority, and the was no longer thudious to advance him to lonour. He was without attendants ; and the nobility had deferted him. Her anfwer was fenfible and temperate. She called to his remembrance the diftinctions the had conferred on him, the ufes to which he had put the credit and reputation acciuing foom them, and the heinous offences he had encouraged in her fubjuets. Though the plotters againf Rizzio had reprefented him as the leader of their enterprize, fhe had yet abllained from any acculation of him, and had even behaved as if the believed not his participation in the guilt of that project. As to the defects of his retinue, the had uniformly offered hin the attendance of her own fervants. As to the nobility, they were the fupports of the throne, and independent of it. Their countenance was not to be commanded, but won. He had difcovered too much ftatelinefs towards them; and they were the proper judges of the deportment that became them. If he wifhed for confequence, it was his duty to pay them court and attention; and whenever he fhould procure and conciliate their regard and commendation, the would be happy to give him all the importance that belonged to him.

In the mean time, the earls of Murray and Bothwel were induftrioully ftriving to widen the breach between the king and queen, and at the fame time to foment the divifion between the king and his nobles. The earl of Morton excited difurbances on the borders ; and as no fettled peace had taken place there fince Mary's marriage, there was the greateft reafon to believe that he would fucceed in his attempts. Proclamations were therefore iffued by the queen to call her fubjeds to arms; and fhe proceeded to Jedburgh, to hold juftice courts, and to punifh traitors and diforderly perfons. In the courfe of this journey fhe was ta- 696 ken dangeroufly ill; infomuch that, believing her death fick, but to be at hand, The called for the bilhop of Rofs, telling recovers him to bear mitnefs, that the bad perfevered in that religion in which fhe had been nourifhed and brought up; taking the promife of her nobles, that after her death they would open her laft will and teftament, and pay to it that refpect which confifled with the laws, recom-
mending

## S C O [ 7:7 ] S C O

Sootland. mending to them the rights of her insant fon, and the charge of educating him in fuch a manner as might enable him to rule the kingdom of his anceltors with honour ; and intreating them to abtain from all cruelty and per ecution of her Catholic fuhjects. Nutwithftanding her app:ehe fions, however, and the extreme violunce of her datemper, the queen at laft recovered perfect health. Is foon as the was able to travel, She viti ed Kelfo, Werk caftle, Hume, Langton, and WedJerburn. The licentious borderers, on the firt new of her recovery, laid down their arms. Being defirous to take a view of Berwick, the queen advanced $t 0$ it with an attendance of roos horfe. Sir John Fonter, the deputy warden of the Eaglifh marches, came forth with a numerous retinue, and conducted her to the moft proper ftation for furveying it, and paid her all the honours in his power, by a full difcharge of the artillery, and other demonitrations of joy. Continuing her journey, fhe paffed to Eymouth, Dunbar, and Tantallon; proceeding thence to Craigmillar caftle, where fle propoled to remain till the time of the baptifm of the pilice, which was foon to be celebrated at Stirling.
697
Unkindnefs During the fevere ficknefs of the queen, her hufof the king-band kept himfelf at a diftance: but when the was fo far recovered as to be out of danger, he made his appearance; and being received with fome coldnefs and formality, he retired fuddenly to Stirling. This crtel neglect was a moft Cenfible mortification to her ; and while fhe fuffered from his ingratitude ald haughtinefs, ftee was not without fufucion that he was attempting to difturb the tranquilfity of her government. She was feized with a fettled melancholy; and, in her anguifh, often wihed for dea! to put a period to her exiftence. Her nobles, who were caballing againft her, remarked her condition, and took advantage of it. Bothwel, who had alre: dy recommended himfelf by his fervices, redoubled bis efforts to heighten the favour which thefe fervices had induced her to conceive for him. At this time, it is probable, he fought to
698 gain the affection of the queen, with a view to marry A divorce her bimfelf, providing a divorce from her hufband is propo- could be obtained; and this was now become the fubject fed.
connive; and behold our proceedings without open- $\$=0 . . . . . .$. ing his lips. The queen immediately made anfwer, " I defire that you sill do nothing from which any ftuin may be fixid upon my honoar or confcience ; and 1 therefore require the matter to 1ut a. it is, till God of his goodnelis fond relief: Whast you t' ink to be of fervice to me may turn out to n.y difpleafiure and harm."

It appears, however, that from this moment a plot was formed by Murray, Bo'hwel, and Lethington, againft the life of Damley, and by fome of them probably againtt the queen herfelf; and that Morton, who with the other conlpirators againft Rizzio had received a pardon, was clofely affociated with them in their nefarious defigns. That profligate peer was, in his way to Scotland, met at Whittingham by Bothwel and the fecretary. They propofed to him the murder of the king, and required his affitance, alleging that the queen herielf conlented to the deed; to which Morton by his own account replied, that he was difpofed to concur, provided he were fure of acting under any authority from her; but Bothwel and Lethington having returned to Eliaburgh, on purpofe to obtain fuch an authority, fent him back a meffage, That the queen would not permit any converlation on that matter.

In the mean time, preparations were made for the baptifm of the young prince; to affit at which the queen left Craigmillar and went to Stirling. The ceremony was performed on the 17 th of December 1566 After the baptifmal rites were performed, the name and titles of the prince were three times proclaimed by the herids to the found of trumpets. He was called and defigi.ed, Charles James, James Charle:, prince and fteward of Scotland, duke of Rothefay, earl of Catrick, lord of the lies, and baron of Renfrew: Amidtt the fcenes of joy difplayed on this occafion, the king fhowed his folly more than he had ever done. As Elizabeth did not mean to ack nowledge 699 ever done. As Elizabeth did not mean to acknowledge tbfurd be-
him in his fovereign capscity, it was confittent neither haviour of with the dignity of the queen, nor his own, that he the k ag fhould be prefent at the baptiin. He did: ot indeed prefent himfelf either at the ceremony or lice cotertainments and mafquerades with which it was accompanied. At this juncture, however, though he had often kept at a greater diffance befure, he took up his refidence at Stirling, as if he meant to offerd the queen, and to expofe their quarrels to the world. Du Croc, who was inclined to be favourable to him, was to ftruck with the impropriety of his belavicur, that he affected to have inftructions from France to avoid all intcrcourle with him: and when the king propoled to pay him a vilit, he took the liberty of in orming him, that there were troo paffages in his chander; and that if his majefty fiould enter by the one, he flould be conltrained to go out by the other.

While he refided at Stirling, the king confined him- An, 156 . felf chietly to his chamber. His fronge behaviour to the queen did not give the public any favourable idea of him; and as the earl of Murray and his faction took care to augment the general odium, nu court was paid to him by foreign ambaffidors. His fituation, therefore, was exceedingly uncomfortable; but though he muft have been confcious of his folly and imprudence, he did not alter his conduct. In a fullen humour he left Stirling, and proceeded to Glafgow. Herc he fell

## $\mathrm{S} \mathrm{C} 0 \quad[718] \quad \mathrm{S}$ C O

$\underbrace{\text { Siction icis, with fuch fymptoms as feemed to indicate poifon. }}$ He was tormented with violent pains, and his body He ia.ls fick, was covered over with puitules of a bluifh colour; to that his death was daily expected. Mary did not re- pay his coldnefs to her by negligence. She fet out immediately for Glafgow, and waited on him with all the atiduity of an affectionate wife, until he recovercd : after which fie returned with him to Edinburgh; and as the low fituation of the palace of Holyroodhoule was thought to render it unhealthy, the king was lodged in a houle which had been appointed for the fuperior of the church, called St Mary's in the Fields. This houfe flood on an high ground, and in a falubrious air ; and here fhe faid with him fome days.-
-ot Here the confpirators thought proper to finifh their a:ad is mur plot in the moft execrable manner. On the rcth of dered.
firming, that the earl of Bothwel, James Balfour, Da- Scotiand. vid Crialmers, and black John Spence, were the inurderers. No name, however, was lubfcribed to this intelligence, nor was any demand made for the proffered reward; fo that it was difficult to know whether this advertifement had been dietated by a fpirit of calumny or the lore of juftice.

## 703

In the mean time, the earl of Murray conducted Strong pres himfelf with his ufual circumfpection and artifice. On tumption of a pretence that his wife was dangeroufly fick at his the guit caftle in Fife, he, the day kefore the murder, obtained of Alerray. the queen's permifion to pay leer a vifit. By this means he propofed to prevent all lufpicion whatever of his guilt. He was fo full, however, of the intended project, that while he was proceeding on his journey, he obfersed to the perfon who accompanied him, "1his night, before morning, the lord Darnley ftall lofe his life." When the blow was ftruck, he returned to Edinburgh to carry on his practices. Among foreign nations, the domeftic difputes of the queen and her hufand being fully known, it was with the greater eafe that reports could be propagated to her diladvantage. Letters were difpatched to France, expreffing, He accuies in fervent terms, her participation in the murder. In the queen. England, the minifters and courtiers of Elizabeth could not flatter that princefs more agreeably, than by induftrioufly detracting from the honour and the virtue of the Scottifh queen. Within her own domirions a fimilar fpirit of outrage exerted itfelf, and not without fuccefs. As her reconciliation with her hufband conh not be unknown to her own fubjects, it was regarded as diflimulation and treachery. The Protef tant clergy, who were her moft determined enemies, poffeffed a leading direction among the fopulace; and they were the friends and the partizans of the earl of Murray. Open declamations from the pulpit were made againf Bothwel, and ftrong infinuations and biting furmifes were thrown out againft the queen. Pa pers were difperfed, making her a party with Bothwel in the murder. Every art was employed to provoke the frency of the people. Voices, interrupting the filence of the night, proclaimed the infany of Bothwel ; and portraits of the regicides were circulated over the kingdom (s).

The queen's determination, however, to fcrutinize the
(s) In the article Mary $Q_{\text {ucen of Scotland, we have fated at confiderable length the arguments for and againft }}$ the participation in the murder of Darnley, of which Mary has been acculed. As we have concluded that article with the arguments brought by one of her ablelt accufers, juftice and impartiality require that we fhould embrace this only opportunity of prefenting our readers with the arguments in favour of the queen, brought forward by her moft recent defender Mr Chalmers. "Mary herielf (fays Mr Chalmers, Caledonia, vol. i. p. 8 go.) feems to have been the only perfon of any coniequence who was unacquainted with a defign which was attended with fuch mighty confequence; yet has it been a queftion of debate, from that age to the prefent, whether Mary had been an accomplice in the murder of Darnley her hufband. The prejudice of the late Lord Orford led him to fay, that a plea of fuch length ferves rather to confirm than weaken the evidence for the fact. But, it had been an obfervation full as juft, as well as logical, to have faid that, fince the criminations of 240 years have not proved her guilty, the ought to be fairly deemed innocent. Party has, however, entered into this queition, with its ufual unfairnefs; and it is liuppofed, that the ought to be prefurued to be guilty, rather than innocent; it being more likely that a wife would mutder lier bufband, and a queen act as an aflafin, than that nobles who were accuftomed to crinics, fhould perform this atrocious action, and caft the offence from themfelves on an innocent perfon. The f: wie iuconfiffency argues that, as fhe was educated in a corrupt court, the muft have been corrupt ; yet, her fonnet anil her forrow for the lofs of Franci, her fiff hufband, atteft that her heart was yet uncontaminated with corrup. tiun ; and the fteadinefs with which fle adhered to her faith, amiddt 20 ycars perfecution, evinces that religion had

Sectland. the matter was unabated; and to the carl of Lenox, $\underbrace{\text { the king's father, fhe paid an attention which he could }}_{7=5}$ kind. Having prefied her by le:ter to the moll diligent inquiry after the regicides, the returned an anfuer focompletely to lis wihes, that he was fully convinced of the fincerity and rigour with which fle iatended to proceed againft them: and he urged her to affemble the three
eftates, thet their advice might direct the order and manner of their trial. She wrote to him, that an affembly of the eftates was already proclaimed; and that it was her earneft and determined will and purpole, that no ftep thould be neglected that could promote the advancement and execution of juftice. Yielding to his anxicties, he addreffed her again, intreating that the trial might not be delayed; oblerving, that it was not a matter of patliamentary inquiry ; advining that it would be more proper to proceed with the greateflexpedition; and urging her to commit to prifon all the perfons who had been named and deceribed in the papers and plaeards which had been put up in the public places of the city. The queen informed him, that although the had thought it expedient to call a meeting of parliament at this juncture, it was not her intention that the proceedings againtt the regicides thould be delayed till it was actually affembled. As to the placards and papers to which he alluded, they were fo numerous and contradictory, that fhe could not well determine on which to act: but if he would condeleend to mention the names which, in his opinion, were moft fufpicions, fie would inflantiy command that thofe tteas thould be taken which the laws directed and authorifed. He named the earl of Bothwel, lames Bulfour, David Chalmers, black John Spence, Francis Seballian, Joln de Burdeaux, and Jolenh the brorher of David Rizzio; and aflured her majelly, that his fufpicions of thefe perfons
were weighty and frong. In reply to tis infermation, 'cot'onk Mary gave him her folemn promite, that the perfons he had named hould undergo their trial in conformity to the laws, and that they fhould be punihed accoroing in the mealure of their guilt: and the invited him to leave his retirement immediately, and meet her at court, that he might witnels the proceedings againtt them, and the zeal with which the was anmated to perform the part that becanae her.
While the queen earried on this correfpondence with the eall of Lenox, fle refided jartly at the palace of the lord Seton, at the diftance of a few miles from the cayital, and partly at Hulyroodhoufe. By the time that fle fent ber invitation to him, the was refiding in the capital. She delayed not to confer with her counfellors, and to lay before them the letiers of the earl of Lenox. Bothwel was earneft in his proteftations of innocence ; and he even expreffed his with for a tial, that he might Afablih his integrity. No facts indicated his guilt; there had appeared no accufer but the earl of Lenox; and no witneffes bad been found who could eftablith his criminality. Her privy-council feemed to her to be firmly perfaaded that he was fuffering under the malice of defamation. Murray, Morton, and Lethington, whatever their private machinations might be, were publicly his mot firentous defendets; and they explained the behaviour of the earl of Lenox to be the cffect of hatred and jealouly againtt a nobleman who had outrun him fo far in the career of ambition. But though all the arts of Murray and Bothwel, Morton and Lethington, were exerted to the utmolt to millead the queen, they were not able to withhold her from adopting the conduct which was the molt proper and the molt honourable to her. It was her own ardent defire that the regicides fhould be punihhed; fhe had given her folemn promife to the earl of Lenox, that the perfons whom he fufpected ihould
its preper influence upon her foul. Hitherto, in this argument, no pofitive evidence has been adduced to prove her gnilt ; and therefore the ought to be acquitted as innocent. But at length certain letcres, fomets, and coaztracts between Mary and Botiwel, have been introduced as proofs of a guilty intercourfe, rather than a disect participation in the crime; and thofe letters, fonnets, and contraits, were firt produced by the earl of Morton, the queen's cha cellor for life, who pretended to bave found them in the cultody of Dalgliefh, a fervant of Buthwel. Yet this wrelched magiftrate bad committed murder and tueafon at the affalination of Rizzio; he knew of the defign to affafinate Darnley, yet he concealed it, and was thereby guilty of mifprifion; he knew of the crime, and was of courfe a participant, for which he was brought to the fcaffold, where he acknowledged his crimes; now, this convicted criminal would not be admitted as a witnefs in any court of juflice within Great Britain; and the prodiction of fuch documents by fuch a wretch, at fuch a time, cafts ftrong fufpicion on fuch papcrs, which were c-ntaminated by his guilty touch. When thofe fufpicious epitles were firit introduced into the privy-council, they appeared, as the regifter afe:fe, to have been written and fubferibed by her own hand, and feat to James E.rr of Bothsel. When thofe previe letters were firt brought into the Scottifh parliament, they appear only to have been healie srritten with her own hand, as the record evinces, and not fubferibed by her. When thofe dubions letters were firf produced before the commiffioners at York, for judging of the proofs of her guilt, they ferm to have been fuperferibed to Bothwel; yet, they afterwards appeared betore Elizabeth's commifioners at Weftminfter, without any fuperfeription to any man; and thofe letters finally appear to have been neither fub$f_{c r i b e d ~ b y ~ M a r y, ~ n e r ~ f u p e r f e r i b e d ~ t o ~ B e t h r e e l . ~ W h e n ~ t h o f e ~ l e t t e r s ~ w e r e ~ f i r f t ~ p r o d u c e d ~ b e f o r e ~ t h e ~ p r i v y-c o u n c i l ~}^{\text {a }}$ of Scolland, they were written in the Sco ifh language; fo they appeared to the commiffioners at York; but when they were produced to the commiffioners at Weifminfter, they were writien in French. The whole thus a rears to have been a jugsle of tate, to cozen the people into obedience. The fonnets and contracts have A. equally convifed, $1, v$ heir own contents, of forgery. I have read the whole controverfy on the genuinenefs - forgery of thofe docus en s; I hiave ranfacked the Paper office for information on this interefling fubject, and tl re does not appear to me to be a tit:le of evidence, exclufive of thofe defpicable forgeries, to prove that Mary Stuart had any knowledge oi the "xdurdef of her hufbanch"

## S C O [ 720 ] S C O

Sophel. me Thouid be profecuted; and amidft all the appearances in favour of Bothwel, and all the intluence employed to ferve him, it is to be regarded as a ftriking proof of her honour, vigour, and ability, that fhe could accomplifh this meafure. An order of the privy council was accordingly made, which directed, that the earl of Bothwel, and all the perfons named by Lenox, fhould be brought to trial for the murder of the king, and that The 12 th of April was appointed for the trial. A general invitation was given to all perfons to prefer their accufations. The earl of Lenox was formally cited to do himfelf juftice, by appearing in the high court of jurticiary, and by coming forward to make known the guilt of the culprits.

In the mean time, it was proper to reprefs that fpirit of outrage which had manifefted itfelf againft the queen. No difcoverics, however, were made, except againft James Murray, brother to Sir William Murray of Tullibardin, who at different times had publifhed placards injurious to her. He was charged to appear before the privy-council: but refufing to obey its citation, it was made a capital offence for any commander of a veficl to convey him out of the kingdom; and the refolution was taken to punifh him with an exemplary feserity. Effecting his efcape, however, he avoided the punifhment due to his repeated and deteftable acts of calumny and treafon.

The day for the trial of Bothwel approached. The confpirators, notwithflanding their power, were not without apprehenfions. Their preparations, however, 'for their fafety bad been anxious; and, among other practices, they neglected not to attempt to infufe a panic into the earl of Lenos. They were favoured by his confcioufnefs of his unpopularity, and his want of ftrength, by his timidity and his fpirit of jealoufy. Sufpicions of the queen's guilt were infinuated; and the dangers to which he might be expofed by infifting on the trial were piaced before him in the frongelt colours. He was fenfible of her averfion to him ; and his weaknefs and the fovereign authority were contrafled. His friends concurred with his enemies to intimidate him, from the fpirit of flattery, or from a real belief that his fituation was critical. By the time he reached Stirling on his way to Edinburgh, his fears predominated. He made a full ftop. He was no longer in hafte to proceed againtt the regicides. He addreffed a letter to the queen, in wlich he faid he had fallen inte fuch ficknefs, that he could not travcl ; and he affirmed, that he had not time to prepare for the trial and to affemble his friends. He complained, too, that Bothwel and his accomplices had not been committed to cuftody; he infifted, that this ftep flould be taken; and he requeffed, that a more difant day might be appointed for the trial. After the lengths to which matters had been carried, this conduct was moft improper ; and it is only to be accounted for from terror or caprice. His indifpofition was affected; he had been invited by Mary to wait on her at Edinburgh at an early period, to concert his meafures; and the delay he afked was contradictory to his former intreaties. Afer the invitation fent to him, he might have relied with fafety on the protection of the queen, without any gathering of his friends; from the time of her private intimation to him, and of the legal citations of her officers, there had pafied a period more than fuf-
ficient for the purpofe of calling them together; and Scontland. indeed to fuppofe that there was any neceffity for their affirtance, was an infult to government, and a matter of high indecency. There was more juflice in the complaint, that the earl of Bothwel and his accomplices had not been taken into cuftody; and yet even in this peculiarity he was to blame in a great degree. For he had not obferved the precaution of that previous dilplay of evidence, known in the Scottifh law under the term of a precognition, which is common in all groffer offences, and which the weighty circumfances of the prefent cafe rendered fo neceffary as a foundation for the confinement and conviction of the criminals.

An application for the delay of a trial fo important, but his peon the night immediately preceding the day fated for trion is reit, and reciting inconclufive reafons, could not with pro- ${ }^{-}$fufed. priety be attended to. The privy council refufed the demand of the earl of Lenox. The court of jufticiary was affembled. The earl of Argyle acted in his character of lord high jufticiary; and was aided by four affeffors, Robert Pitcairn, commendator of Dumfermline, and the lord Lindiay, with Mr James Macgill and Mr Henry Balnaves, two lords of feffion. The indiftment was read, and the earls of Bothwel and Lenox were called on; the one as the defender, the other as the accufer. Bothwel, who had come to court with an attendance of his vaffals, and a band of mercenary foldiers, did not fail to prefent himfelf: but Lenox appeared only by his fervant Robert Cunnyngham; who, after apologizing for his ablence, from the fhortnefs of the time, and the want of the prefence of his friends, defired that a new day might be appointed for the trial ; and proteited, that if the jury fhould now enter on the bufinefs, they fhould incur the guilt of a wilful error, and their verdict be of no force or authority.

This remonflance and proteltation did not appear to the court of fufficient importance to interrupt the trial. They paid a greater refpect to the letters of the earl of Lenox to the queen infiffing on an immediate profecution, and to the confequent order of the privy-council. The jury, who confifted of men of rank and condition, after confidering and reafoning on the indictment for a confilkrable time, were unanimous in acquiting Bothwel of all fhare and knowledge of the king's murder. Bothwel The machinations however of Morton, which we have acquitted. mentioned in the life of Mary, were fo apparent, that the earl of Caithnefs, the chancellor of the affize, made a declaration in their name and his own, that no wilful error ought to be imputed to them for their verdict; no proof, vouchers, or evidence, to confirm or fupport the criminal charge having been fubmitted to them. At the fame time, he offered a proteftation for himfelf, that there was a mittake in the indictment, the 9 th day of February inftead of the roth being expreffed in it as the date of the murder. It is not to be doubted, that this flaw in the indictment was a matter of defign, and with a view to the advantage of Bothwel, if the earl of Lenox had made his appearance againft him. And it has been remarked as moft indecent and fufpicious, that foldiers in arms fhould lave accompanied him to the court of juflice; that during the trial, the earl of Morton flood by his fide to give him countenance and to allift him ; and that the four affeflors to the chief jufticiary were warm and ftrenuous friends to the earl of Murray.

Immediately

## S C O

Scotland. Immediately after his trial, Bothwel placed a writing $\underbrace{}_{\text {in a conficuous place, fubferibed by him, challenging }}$ to fingle combat, any perion of equal rank with himtelt, who thould dare to affirm that he was guilty of the king's murder. To this challenge an anfwer was publithed, in which the defiance was accepted, on the condition that fecurity fhould be given for a fair and equal conflicf : but no name being fubfcribed to this paper, it was not underitood to corref?ond with the law of arms ; and of confequence no llep was taken for the fighting of the duel. Two days after parliament met, and there the party of Bothwel appearcd equally formidable. The verdict in his favour was allowed to be true and jult. Ife was continued in his high offices; and obtained a parliamentary ratification of the place of keeper of Dunbar calle, with the eftates cornected with it; and other favours were conferred on Murray, with the reft of the

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Schemes of
the earl of
Mirray to
hurt the
queen.

A very thort time after the final acquittal of Bothwel, he began to give a greater fcope to his ambition, and conceived hopes of gaining the queen in marriage. It has been already remarked, that he had infidioully endeavoured to gain her affection during the lifetime of her hufband; but thougb he might have fucceeded in this, the recent death of the king in fuch a fhocking manner, and the ftrong fufpicions which muft unavoidably filll reft on him, notwithfanding the trial he had undergone, neceflarily prevented him from making his addreffes to her openly. He therefore endeavoured to gain the nobility over to his fide; which having done one by one, by means of great promifes, he invited them to an entertainment, where they agreed to ratify a deed pointing him out to the queen as a perfon worthy of her hand, and expreffing their refolute determination to fupport him in his pretenfions. This extraordinary bond was accordingly executed; and Murray's name was the firt in the lift of fubfcribers, in order to decoy others to fign after him ; but that he might appear innocent of what he knew was to follow, he had, before any ufe was made of the bond, afked and obtained the queen's permiffion to go to France. In his way thither he vifited the court of Elizabeth, where he did not fail to confirm all the reports which had arifen to the difadvantage of Mary; and he now circulated the intelligence that fhe was foon to be married to Bothwel. Her partizans in England were exceedingly alarmed; and even Queen Elizabeth herfelf addreffed a letter to her, in which fhe cautioned her not to afford fuch a mifchievous handle to the malice of her enemics.
Mary, on the diffolution of parliament, had gone to Stirling to vifit the young prince. Bothwel, armed with the bond of the nobles, affembled 1000 horfe, under the pretence of protecting the borders, of which he was the warden; and meeting her on her return to her capital, difmiffed her attendants, and carried her to his cafle of Dunbar. The arts which he ufed there to effeet the accomplifhment of his wifhes we have mentioned under another article, (fee Mary). But having been married only fix months before to Lady Jane Gordon, fifter to the earl of Huntly, it was neceffary to procure a divorce before he could marry the queen. This was eafily obtained. The parties were coufins within the prohibited degrees, and had rot obtained a difpenfation from Rome. Their marriage, therefore, in the opinion of the queen and her Catholic fubjects, was illiVol. XVIII. Part II.

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cit, and a profane mockery of the facrament oi wie Sectiard. church. The hutband lad alfo bectr unfaithful; io that $7_{716}$ two actions of divorce were inflituted. The lady com-1, civorad menced a fiut againft him in the court of the commit-form hifaries, charging him as guilty of adultery with one (f wite. her maids. The earl himelf brought a duit againtt hi, wife before the court of the archbill.op of Si Anditw?, on the plea of conlanguinity. By both courts their marriage was declared to be void; and thus two leniences of divorce were pronounced.

Bothwel now conducted the queen from Dunbar to her capital. But inllead of attending her to her palace of Holyroodhoufe, his jealoufy and apprehenfions induced lim to lodge her in the caftle of Edinburgh, where he could hold her in fecurity againft any attempt of his enemies. To give fatisfaction, however, to her people, and to convince them that fhe was no longer a prifoner, a public declaration on her part appeared to be a meafure of expediency. She prefented herlelf, therefore, in the court of feffion; the lords chanceilor and prefident, the judges, and other perfons of difinction, being prefent. After obferving that fome fop had been put to the adminiftration of juftice on account of her being detained at Dunbar againft her will by the lord Bothwel, the declared, that though fle had been highly offended with the outrage offered to her, fhe was yet inclined to forget it. His courteoufnefs, the fenfe the entertained of his paft fervices to the fate, and the hope with which fhe was imprefied of his zeal and activity for the future, compelled her to give him and his accomplices in her imprifonment a full and complete pardon. She at the fame time defired them to take notice, that hie was now at liberty; and that ihe propofed, in confideration of his merits, to take an early opportunity of promoting him to new and diftinguifhed honours.
It was underftood that the queen was immediately Banns of to advance him to be her hufband. The order was given the marfor the proclamation of the banns; and Mr. John Craig, riage proone of the minifters of Edinburgh, was defired to perform this ceremony. But though the order was fubScribed by the queen, he abfolutely refufed his compliance without the authority of the church. The brethren, after long reafonings, granted him permiffion to difcharge this duty. His fcruples and delicacy were not yet removed. He proteited, that, in obeying their defire, he flould be allowed to fpeak his own fentiments concerning the marriage, and that his publifhing the banns fhould infer no obligation in him to officiate in the folemnity. In his congregation, accordingly, before a crowded andience, and in the prefence of feveral noblemen and privy-counfeilors, he declared that the marriage of the queen and the earl of Bothwel was unlawful, and that he was prepared to give his reafons for this opinion to the parties themfelves. He added, that if leave to do this was denied him, he would either abfain altogether from proclaiming the banns, or take the liberty, after proclaiming them, to inform his people of the caufes of his difapprobation of the marriage. He Fortitude anfwered, that the church had prohibited the marriage, i Ms John of perfons feparated for adultery ; and that the divorce Cratg. between him and his wife muil lave been owing to cullufion; fince the fentence had been given with precipitation, and fince his new contract was fo fuddan ; and he oljected to him the abduction and 1 avifhment of the queen, and his fufpicion of his guilt of the king's mur-

## S C O [ $\quad ; 22] \quad$ S C O

S:otland. der. This bold language drew no reply from Po.hrel that was fatisfactory to Mr Craig, or that cou ${ }^{\circ}$ intinidate him. He proclaimed in his church the bams of marriage ; but he told the congregation, tlat he cifcharged the fuggeitions of his confcience in proneur.cing it to be a deteilable and fcandaluus engsyement. He exprefied the forrow he felt for the conduct of the nobility, who feemed to approve it fiom their llattery or filence; and addreffing himfelf to the faithful, he hefought them to pray to the Almighty that he would turn a refolution intended again:! law, reafon, and religion, into a comfort and beneft to the clurch and the kingdom. Thefe freedoms were too great io palis unnoticed. Mr Craig was ordered again to attend the privy-ccuncil; and he was reprimanded with foverity for exceeding the bounds of his commifion. He lad the courage to defend himfelf. Mis commifion, he laid, was founded in the word of God, pofitive law, and natural reafon; and on the foundation of thete topics he was about to prove that the marriage muft be univerfally odious, when the earl of Bothwel commanded him to be filent. The privy-ccuncil, fluck with the vigour of the man, and apprehenfive of the public difcontents, did not dare to inflict any puniffment on him ; and this victory over Bothwel, while it heightened all the f? picions againft him, ferved to encourage the enemies of the queen, and to undermine the refpect of her fubjects.

Mary, befare the gave her hand to Bothwel, created him duke of Orkney. The ceremony was performed in a private manner, after the rules of the Popifh church; but, to gratify the prople, it was likewife folemnized publicly according to the Proteflant rites by Adam Bothwel bifhop of Onkney, an ecclefiaftic who had renounced the epifcopal order for the reformation. It was celebrated with little pomp and feftivity. Many of the nobles had retired to their feats in the country; and thofe who attended were thoughtful and fad. Du Croc, the French ambaffador, fenfible that the match would be difpleafing to his court, refufed to give his countenance to the folemnity. There were no acclamations of the common people. Mary herfelf was not inconfcious of the imprudence of the choice flie had made, and looked back with furprife and forrow to the train of circumflances which had conducted her to this fatal event. Forfaken by her nobles, and imprifoned at Dunbar, Aie was in fo perilous a fituation that no remedy could fave her honour but death. Her marriage was 'the immediate and neceffary confequence of that fituation ( T ). It was the point for which her enemies had laboured with a wicked and relentlefs policy.

Mary was unfortunate in her fecond marriage, but much more fo in her third. Bothwel had neither talents for bufinefs nor affection for his wife. Ambitious
and jealous to the laft degree, he fought cnly tor cfta- Scotion . blifh himelf in power, while his fears and jealouties made him take the moft improper means. 'I he marriage had aiready thrown the nation into a ferment : ard the kealk improper exercife of power, or indeed an appearance of $i t$, even on the part of the queen, would have been fuficient to ruin them both for erer. Perhaps the only thing which at this juncture could have pacified the people, would have been the total abolition of Popery, which they had often required. liut this was not thought of. Inttead of taking any tep to B thivel pleafe the people, Bothwel endeavoured to force the attempts to carl of Mar to deliver up the young prince to his cu- get the Iledy. - This was fufficicnt to rekindle the flame which ount had hitherto been fmothered, and riake it burlt out pronce in with all its violence. It was univerfally believed that power. Bothwel, who liad been the muscerer of the father, deligned alto to take uway the life of the fon, and the queen was thought to participate in all his crimes. The earl of Murray now took advantage of the queen's unfortumate fituation to aggrandize himfelf and effect her ruin. After having vifited the Englifh court, he pro- Murray ca ceeded to France, where he affiduoufly diffeminated all mniutes the reports againit the queen which were injurious to ${ }^{\text {ii e queca. }}$ her reputation ; and where, without being expofed to fuipicion, he wis able to maintain a cloie correlpondence with his friends Morton and Lethington, and to infpirit their machinations. His affociates, true to his ambition and their own, had promoted ail the fehemes of Bothwel on the queen with a power and influence which iniured their fuccefs. In confederacy with the carl of Murray, they had conipired with him to murder the king. Affitted with the weight of the earl of Murray, they had managed his trial, and promoted the verdict by which he was acquitted. By the fame arts, and with the fame views, they had joined with him to procure the bond of the nobles recommending him to the queen as a hufband, aflerting his integrity and innocence, recounting his noble qualiies, expreffing an unalterable refolution to fupport ihe marriage againft every oppofer and adverfary, and recording a wilh that a defection from its objects and purpofes thould be branded with everlatiting infamy, and held out as a mof faithlefs and perjured treachery, When the end, however, was accomplibed for which they had been fo zealous, and when the marriage of the queen was actually celebrated, they laid afide the pretence of friendfhip, and were in halie to enlitic themfelves to the ignominy which they had invited to fall on them. The murder of the king, the guilt of Bothwell, his acquit!al, his divorce, and his marriage, becarae the topics of their complaints and declamation. On the foundation of this hated marriage, they even ventured privately to infer the privity of the
queen
(T) "The queen (fays Melvil) could not but marry him; feeing he had ravilhed her and lain with her againft ber will." Memoirs, p. 159 . In the following raflace, from a writer of great authority, in our hifory, this topic is touched with no lefs exaetnefs, but with greater delica r. "After Mary had remained a fortnight under the power of a daring profigate adventurer," fays Lord Hailce, "few foreign princes would have folicited her hand. Some of her fubjeets might fill lave fought that honour; but her compliance would have been humiliating bevond meafure. It would have left her at the mercy of a capricisus hufband; it would have expofed her to the difgrace of being reproached, in fome fullen hour, for the adventure at Dunbar. Mary was fo fituated, at this critical period, that fhe was reduced to this horrid alternative, either to remain in a friendlefs and hazardous celibacy, or to yield ber hand to Bothwel." Remarks on the Hiftory of Scot!-nd, P. 224.

## S C O [ 723 ] S C O

S: rland. queen to all his iniquitous tranfactions; and this Atep leemed doubtleis, to the mals of her own fubjects and to more ditant obtervers, a itrong corfirmation of all the former fulpicions to her faame which had been circulated with fo much artifice. Their imputations and devices excited againtt her, both at home and abroad, the molt indignats and humiliating odium. Amidat the ruins of her fame, they thought ot burying for ever hor tranguillity and peace; and in the convalfions which they had meditated, they were already anticipating the downfal of Bothwel, and fnatching at the crown that 722 tottered on her head.
A confede-
But while this cabal were profecuting their private racy formed ends, feveral noblemen, not lefs semarkable for their againtt B-shwel. virtue than their rank, were eager to vindicate the national integrity and honour. The earl of $\dot{A}$ thol, on the king's murder, had retired from court, and was waiting for a proper feafon to take revenge on the regicides. The earl of Mar, unealy under the charge of the young prince, was folicitous to make himfelf ftrong, that he might guard him from injury: Motives fo patriotic and honourable drew applaufe and partizans. It was fulticient to mention them. By prirate conference and debate, an affociation was infenfibly formed to punifh the murderers of the king, and to protect the perlon of the prince. Morton and Lethington encouraged and promoted a combination from which they might derive fo much a ivantage. A convention was accordingly appointed at Stirling, for the purpofe of confulting on the meafures which it was moft expedient.to purfue. They agreed to take an early opportunity of appearing in the field; and when they feparated, it was to collect their retainers, and to infpirit their paffions.

Of this confederacy, the leading men were the earls of Argyle, Athol, Miorton, Mar, and Glencairn; the lords Hume, Semple, and Lindfay; the barons Kirkaldy of Grange, Murray of Tullibardin, and Maitland of Lethington. The earl of Bothwel was fenfible, that if he was to fit on a throne, be mult wade to it through blood. By his advice, two proclamations were intued in the name of the queen, under pretence of prepares for an early day, the earls, baron, and freebolders of the w-r; diftricts of Forfar and Perth, Strathem and Menteith, Clackmannan, Kinrofs, and Fife. By the latter the charged the greater and leffer baronage, with all the inferior proprietors of the thires of Linlithyow and Edinburgh, and the conftabulary of Haddinston and Berwick, to prepare immediateiv for war, and to keep themfelves in readinefs to march at her order. Thefe military preparations admonifhed the affociation to be firm and active, and added to the public inquietudes and dicontents. The sumours againft the queen were moft violent and loud. It was faid, that fle meant to overturn the conftitution and the laws; that fle had been carelefs of the health of her fon, and was altogether indifferent about his prefervation : that fhe had feparated herfelf from the councils and affiftance of her nobles; and that the wifled to make her whim or difcretion the only rule of her government. Agitated with the hazardous Alate of her aifairs, fle publifhed a new proclamation, in which the employed herfelf to refute thefe accufntions; and in which flec took the opportunity of
exprefling in a very forcible manner, not only her at- Scotlad. tachment to her people and the laws, but the fond affection which the bore to the prince, whom the confidered as the chicf joy of her life, and without whom all ber days would be comfortlefs.

The declarations of the queen were treated with foom. The nobles, abounding in vaflals, and having the hearts of the people, were foon in a fituation to take the field. They were ac oncing to the capital. The royal army was not yet affembled; and the queen and Bochwel fulpected that the caitle of Edinburgh would thut its gates upon them. The ficelity of Sir James Balfour the deputy-grovernor had been flaken by the practices of the earl of Mar and Sir James Melvil. Mary left her palace of Holyroodhoufc, and was condueted to Borthwick caftle. The affociated lords, informed of her flight, took the road to this fortrefs with 2000 horle. The lord Hume, by a rapid But is 0 inimarch, prefented himfelf before it with the divifion un-go to fiy der his command: but being unable to guard all its ${ }^{\text {lo Dundar. }}$ avenues, the queen and Botbwel effected their efcape to Dunbar; where the ftrength of the fortifications gave them a full fecurity againit a furprife.

On this fecond difappointment, the nobles refolved to enter Edinburgh, and to augment their ftrength by new partizans. The earl of Huntly and the lord Royd were here on the fide of the queen, with the archbilhop. of St Andrew's, the bihop of Rufs, and the abbot of Kilwinning. They endeavoured to animate the inhabitants to defend their town and the caufe of their fovereign. But the tide of popularity was favourable to the confederated lords. The magiftrates ordered the gates of the city to be fhut ; but no farther refiftance was intended. The lords, forcing St Mars's port, found an ealy admittance, and took poffeffion of the capital. The earl of Huntly and the queen's friends tled to the caitle, to Sir James Balfour, who had been the confidant of Bothwel, and who agreed to protect them, although he was now concluding a treaty with the infurgents.

The affociated lords now formed themfelves into a Proclagncouncil, and circulated a proclamation. By this papert. by the they declared, that the queen being detained in capti- retelious vity, was able neither to govern her realm, nor to com- ${ }^{\text {nubles. }}$ mand a proper trial to be taken of the king's murder. In an emergency fo preffing, they had not defpaired of their country; but were determined to deliver the queen from bondage, to prutect the perfon of the prince, to revenge the murder of the king, and to vindicate the nation from the infamy which it had hitherto fuffered through the impunity of the regicides. They therefore commanded in general all the fubjects of Scotland, and the burgeffes and inhatitants of Edinburgh in particular, to take part with them, and to join in the advancement of purpofes fo beneficial and filutary. The diy after they publithed this pioclamation, they iffued another in terms that were ftronger and more refolute. They definitively exprefted their perfuafion of Bothwel's guilt in the rape and feduction of the queen, and in his perpetration of the king's murder, in order to accomplifh his marriage. They inculcated it as their firm opinion, that Bothwel had nows formed the defign of murdering the the young plince, and that he was collecting troops wil! this view. Addrelling themfelvcs, therefore, to all the fubjects of the realm, whether they refided in counties

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Scolland. or in boroughs, they invited them to come forward to their flandard; and defired them to remember, that all pertons who thould prefume to difobey them would be treated as ememits and traitors.

Bothwel, in the mean time, was not inactive; and the proclamations of the queen had brought many of her vaffals to her affiltance. Four thoufand combatants ranged themfelves on her fide. This force might augment as fhe approwhed to her capital ; and Bothwel was impatient to put his fortunes to the iffue of a battle. He left the ftrong caftle of Dunbar, where the nobles were not prepared to affail him, and where he might have remained in fafety till they difperfed; for their proclamations were not fo fuccefsful as they had expected; their provifions and flores were fcanty ; and the zeal of the common people, unfupported by profperity, would foon have abated. Imprudent precipitation ferved them in a moft effectual manner. When the queen had reached Gladfmuir, fhe ordered a manifeito
bers; but the proference, in point of valuur and difcipline, belonged decitively to the foldiers of the nobles. The queen pofted herfelt on the top of Cabberry hill. The lords, taking a circuit to humour the ground, feemcd to be retrcating to Dalkeith; but wheeling about they approached to give her battle. They were ranged each other. in two divitions. The one was commanded by the earl of Morton and the lord Hume ; the otber by the earls of Athol, Marr, and Glencairn, with the lords Lindfay, Ruthven, Sempil, and Sanquhar. Bothwel was the leader of the royal forces; and the lords Seton, Yeiler, and Borthwick, ferved under him.

It was not without apprehenfions that Mary fursey-Du Croc ed the formidable appearance of her enemies. Dunegociates Croc, the French ambaffador, haftened to interpofe his ${ }^{\text {with }}$ the good offices, and to attempt an accommodation. He rebels. affured the nobles of the peaceful inclinations of the queen ; and that the generofity of her nature difpofed her not only to forgive their prefent infurrection, but to forget all their former tranfgreffions. The earl of Morton informed him, that they had not armed themfeives againft the queen, but againft thic murderer of the late king; and that if fhe would furrender him up to them, or command him to leave her, they would confent to return to their duty. The earl of Glencairn dcfired him to obferve, that the extremity to which they had proceeded might have inftructed him that they meant not to afk pardon for any offences they had committed, but that they were refolved to take cognizance of injuries which had provoked their difpleafure. This afpiring language confounded Du Croc, who had been accuftomed to the worfhipful fubmiffions which are paid to a defpot. He conceived that all negociation was fruitlefs, and withdrew from the field in the expectation that the fword would immediatcly give its law and determine every difference.

Mary was full of perturbation and diftrefs. The fate into which the had been brought by Bothwel did not fail to engage her ferious reflection. It was with infinite regret that fhe confidered the confequences of her fituation at Dunbar. Nor had his behaviour fince her marriage contributed to allay her inquietudes. The violence of his palfions, his fufpicions, and his guilt, had induced him to furround her with his creatures, and to treat her with infult and indignity. She had been almoft conflantly in tears. His demeanor, which was generally rude and indecent, was often favage and brutal. At different times his provocations were fo infulting, that the had even attempted to arm her hand againft her life, and was defirous of relieving her wretchednefs by filling lier blood. On this account, fhe was now encompaficd with dangers. Her crown was in hazard. Under unhappy agitations, fhe rode through the ranks of her army, and found her foldiers difpirited. Whatever refpect they might entertain for her, they had none for her hufband. His own retainers and dependents only were willing to fight for him. He endeavoured to awaken the royal army to valour, by throwing down the gauntlet of defiance againft any of his advelfaries the gauntlet of defiance againft any of his adverfaries to fingte
who fhould dare to encounter him. Iis challenge was combat. inftantly accepted by Kirkaldy of Grange, and by Murray of 'Tullibardin. He objected that they were not peers. The lord Lindiay difcovercd the greatcit impatience to engage him, and his offer was admitted; Lut the fucen interpofing her prerogative, prohibited

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Sootlatif. the combat. All the pride and hopes of Bothivel fank within him. His toldiers in fmall parties were fecretly abandoning their ftandards. It was equally pesilous to the queen to fight or to Hy. The moit prudent expedient for her was to capitulate. She delired to confer with Kirkaldy of Grange, who remonftrated to her againft the guilt and wickednefs of Bothwel, and counfelled her to abandon him. She expreffed her willingnefs to difmifs him on condition that the lords would acknowledge their allegiance and continue in it. Kirkaldy paffed to the nobles, and received their authority to affure her that they would honour, ferve, and obey her
730 as their princels and fovereign. He communicated this
Ie is obli- intelligence to her. She advifed Bothwel to provide for his fafety by flight ; and Kirkaldy admonithed him not to neglect this opportunity of effecting his efcape. (). verwhelmed with thame, difappointment, terror, remorfe, and defpair, this miferable victim of ambition and guilt turned his eyes to her for the laft time. To Kirkaldy of Grange fhe ftretched out her hand: he kiffed it; and taking the bridle of her horfe, conducted her tobecone nobles. They were approacking her with my Iords, to exprefs my refpect, and to conclude our agreement; I am ready to be inltructed by the wildom of your counfels; and I am confident that you will treat me as your fovereign." The earl of Morton, in the name of the confederacy, ratified their promifes, and addreffed her in thefe words: "Madam, you are here among us in your proper place; and we will pay to you as much honour, fervice, and obedience, as ever in any former period was offered by the nobility to the princes your predeceffors."
732
By whom the is crue
ly ufed.

This gleam of funfhine was foon overcaft. She remained not many hours in the camp, till the common foldiers, inftigated by her enemies, prefumed to infult her with the molt unfeenily reproaches. They exclaimed indignantly againft her as the murderer of her hufband. They reviled her as a lewd adulterefs in the molt open manner, and in language the coarfeft and moft opprobrious. The nobility forgot their promifes, and feemed to have neither honour nor humanity. She had charged one milerable fcene for a diltrefs that was deeper and more hopelefs. They furrounded her with guards, and conducted her to ber capital. She was carried along its ftreets, and fhown to her people in captivity and falnefs. She cried out to them to commilerate and protect her. They withheld their pity, and afforded her no protection. Even new infults were offered to her. The loweft of the popalace, whom the declamations of the clergy had driven into rage and madnefs, vied with the foldiery in the licentious outrage of invective and execration. She befought Jaitland to foiicit the lords to reprefs the infupportable atrocity of her treatment. She conjured him to let them know, that fhe would fubmit herfelf implicilly to the determination of parliament. Her intreaties and her fufferings made no impreflion on the nobles. They continued the favage cruelty of their demeanour. She implored, as the laft requett the would prefer to them, that they would lead her to her palace. This confolation, too, was refufed to her. They wifled to accuitom lier fubjects to behold her in difgrace, ..nd to teach them totriumph over her misfortuncs. In the molt mortifying and afticting hour the had evor ex-
perienced, oppreffed with fatigue, and disfigured with Scothand. dutt and lusrow, they thut her up in the houle of the lord provoft: leaviug her to rurolve in her anaious and agitated mind the indignities the had already endured, and to fuffrr in anticipation the calamities they might jet intlict on her.

The malice of Morton and his adherents was hill far from being gratified. In the morning, when the queen looked from the window of the apartment to which flie had been confined, the perceived a white banner diplayed in fuch a manner as to fix her attention. There was delineated on it the body of the late king ftretched at the foot of a tree, and the prince on his knees before it, with a label from his mouth, containing this prayer, "Judge and revenge my caule, O Lord !" This ahominable banner revived all the bitternefs of her afllictions. The cariofity of the people The com drew them to a fcene lo new and to affecting. She mon people exclaimed againt the treachery of her nobies; and the take her begged the fpectators to relieve her from their tyranny. part ; The eventful ftory of the preceding day had thrown her capital into a ferment. The citizens of a betier condition crowded to behold the degraded majefty of their Covereign. Her tlate of humiliation, fo oppofite to the grandeur from which the had fallen, moved them with compaffion and fympathy. They heard her tale, and were filled with indignation. Her lamentations, her diforder, her beauty, all fimulated their ardour for her deliverance. It was announced to the nobles, that the tide of popular favour had turned towards the queen. They haftencd to appear before her, and to affure her, with fmiles and coustefy, that they were immediately to conduct her to her palace, and to reinftate her in her royalty. Impofing on her credulous nature, and that beautiful humanity which characterized her even in the moft melancholy fituations of her life, they prevailed with her to inform the poople, that the was pacified, and that fhe wihed them to difperfe But the the They feparated in obedience to her defire. The nobles advice of now conveyed her to Holyroodhoufe. But nothing the nobles could be farther from their intentions than her re-fledufmiffes ciablihment in liberty and grandeur. They held a them. council, in which they deliberated concorning the manner in which they ought to difpofe of her. It was refolved, that the fhould be confined during her life in the fortrefs of Lochleven; and they fubfcribed an order for ber commitment.

A refolution fo fudden, fo perfidious, and fo tyrannical, filled Mary with the utmoft aftoniflment, and drew from her the moft bitter complaints and exclamations. Kirkaldy of Grange, perceiving with furprife she is idethe lengths to which the nobles had proceeded, feh his fended by honour take the alarm for the part he had acted at their Kirkaldy of defire. He expoltulated with them on their breach Grange. of truif, and cenfured the extreme sigour of the queen's treatment. They counfelled him to rely on the integrity of their motives; §poke oi her paffion for BothWel as moft vehement, and infited on the danger of irtrufting her with power. He was not consinced by their fpeeches; and earnenty recommended lenient and moderate meafures. Diferect admonitions, he laid, could not fail of impreffing her with a full fenfe of the bizards and inconveniences of an improper pallion, and a little time would cure her of it. They alfured him, that when it appuared that flec de cfled Buthriel, and

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S land. Yad utierly abandoned his interefts, they would think of kindneis and moderation. But this, they urged, could

But he is filenced ty a lorgery ui the nobles.

737
Mary confined in Lochleven calte.
fcarcely be expected; for they had recently intercepted a letter from her to this nobleman, in which the exprefled, in the itrongelt terms, the warmth of her love, and her fixed purpole never to forfake him (U). Kirkaldy was defired to perufe this letter; and he preffed them no longer with his remonttrances. The queen, in the mean time, fent a meffage to this generous fuldier, complaining of the cruelty of her nobles, and reminding him that they liad violated their engagements. He inftantly addreffed an anlwer to it, recounting the reproaches he had made to them; flating his advice; defcribing the furprife with which he had read her intercepted letter; and conjuring her to renounce and forgct a mott wicked and flagitious man, and, by this victory over herfelf, to regain the love and refpect of her fubjects. The device of a letter from her to Bothwel completed the amazement of the queen. So unprincipled a contempt of every thing that is molt facred, fo barbarous a perfeverance in perfidioufnefs and injuftice, extinguifhed every fentiment of hope in her boform. She conceived that fhe was doomed to inevitable deftruction, and funk under the pangs of unutterable anguifh.

The lords Ruthven and Lindfay arrived during this paroxyfm of her diftrefs, to inform her, that they were commanded to put in execution the order of her commitment. They charged leer women to take from her all her ornaments and her royal attire. A mean dreis was put on her; and in this difguife they conveyed her with precipitation to the priton appcinted for her. The lords Seton, Yefter, and Borthwick, endeavoured to refcue her, but failed in the attempt. She was delivered over to William Donglas the governor of the catle of Lochleven, who had married the mother of the carl of Nurray, and was himlelf nearly related to the earl of Morton, See Mary.

On the fame day on which the nobles fubferibed the order for the imprilonment of the quees, they entered into a bond of concurrerce or confederacy. Py this deed they bound themfelves to the fixenuous profecution of their quarrel; and it detailed the purpofes which they were to purfine. '1 hey propofed to puinith the murderers of the king, to examine into the qucen's rape, to dillolve her marriage, to preferve her trom the bendage of Bothwel, to protect the perfon of
the prince, and to refore jultice to the realm. The fanction of a molt folemn vath confirmed their reliance on each other; and in advancing their meafures, they engaged to expofe and employ their lives, kindred, and fortunes.

It is eafy to for, notrithlanding all the pretended patriotifm oi the rebels, that nothing was farther from their intentions than to proferute Pothwel and refore the queen to her dignity. "They had already treated her in the vileft manner, and allowed Bothwel to efcape when they might have eafily apprehended and brought him to trial. To exalt themfelves was their only aim. Eleven days after the capitulation at Carberry hili, they held a convention, in which they very properly affumed the name of lords of the fecret council, and iffied a proclamation for apprehending Bothwel as the murderer of the king ; offering a revrard of roco crowns to any perfon who thould bring him to Edinburgh. A fearch Several was made for the murderers of the king that very night pertons in which the queen was confined in Lochleven cafle. t. ken up One Sebafian a Fienchman, and Captain Blackader, ${ }^{\prime \prime}$ account were apprehended; and foon after James Edmondfone, king's murJohn Blackader, and Mynart Frafer, were taken upder. and imprifoned. The people expected full and fatisfactory proofs of the guilt of Bothwel, but were difappointed. The affirmation of the nobles, that they were poffiefled of evidence which could condemn him, appeared to be no better than an artifice. Sebaltian found means to efcape ; the other perfons were fut to the torture and fullained it without making any confeffion that the nobles could publifh. They were condemned, however, and executed, as being concerned in the murder. In their dying moments they protefted their innocence. Sanguine hopes were entertaired that Captain Blackader would reveal the whole fecret at the place of execution, and a valt multitude of fpectators were prefent. No information, however, could be derived from what Bur hey he faid with refpect to the regicides; but while he fo-make no lemnly protefted that his life was unjuttly taken away, confefion he averred it as his belief that the earls of Murray and Morton were the contrivers of the hing's murder.

The lords of the fecret council now proceeded to the Robberies greatef enormities. They robbed the palace of Holy- and cutroodhoufe of its furniture and decorations; converted rages of the the queen's plate into coin; and poffefied themfelves of ted lords. her jewels, which were of great value; and while the faction at large committed thefe acts of robbery, the
earl
(U) "Mr Hume is candid enough to give up the authenticity of this letter; and indeed, fo far as I have obfericd, there is not the Jlighteft pretence of a reafon for conceiving it to be genuine; (Hij) of England, vol. $v$. p. r20.). It was not mentioned by the earl of Morton and his adherents to Throgmorton, when Elizabeth interfered in the affairs of Scotland upon the imprifonment of the queen in the cafle of Lochleven : a period of time when thefe tatefmen were defirous to throw out every imputation to her prejudice, and when in particular they were abuling her with vehemence for her attaclmment to Bothwel; (Keith, p. 419.). Nor was it made ufe of by Murray before the Englith commiffioners. Mary, in the condition to which the nobles had reduced her, cunid not well think of a tlep of this fort, although her attachment to Bothwel had been as frong as they were pleafed to pronounce it. Fur, not to fpeak of the greatnefs of her diftrefs, fhe was guarded by them fo Acialy, as to make it vain for her to pretend to elude their vigilance. In regard, too, to her love of Rothwel, it is not clear that 11 was ever tenl. While the hing was alise, there are no traces of their improper intercourfe. I'e affair of Dunbar was a criminal leduction. 'The arts of a profligate man overcame her. There was no inwe of love upon either five. After her marriage, his rudenels extinguifted in her altogether any remain Findnel's and refpect ; and hence the culdnefs with which the parted with him." Stuart's Hillory of Scorland, _. i. P. 253 note.

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Scotland. earl of Glencaira with folemn hypocrify demolifhed the altar in the queen's chap.l, and deficed and detiroyed all its pictures and ornaments. Thefe exceflive outrages, however, loit them the favour of the people, anid an affociation - .... .ormed in favour of the quecen. The court of France, as foon as the ne 's of Mary's imprifuament arrived, difpatched M. de Villercy to condule with her on her mistortunes: but the lords of the fecret council would nut admuit bim to fee her, on which he immedistely returned to his own country. The earl of Murray, however, was at this time in France; and to the pronifes of this ambitious and treacherous noble the king truted, imagining him to be a lteady fiend to the ustortunaie queen. Elizabeth alfo pretended triendihip, and threatened the affociated lords; but as they had crery realon to douist her fincerity, they paid no regard to hor threats, and even refufed to adnit her ambalador to Mary's prefence.

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From all thefe appearances of friendChip Mary neither did nor could derive any real ntinuance. On the ${ }^{24 t h}$ of July 1567 , the lurd Lindiay, whofe imperious behaviour, fays Dr Stuart, approached to infanity, was ordered by the lords to wait on ti:c queen at Lochleven. He carried with him three deeds or inftruments, and was inftructed not to be fparing in rudenels and menaces i:1 orjer to compel her to fubferibe them. By the firit, the was to refign ber crown to her infant fon; by the fecond, the appointed the earl of Murray regent of Scotland; and by the third, fle condlituted a council to direet the prince till this nobleman thould arrive in Scolland, or on the event of his death or refufal of the office. On the part of the queen all refiltance was vain. Sir Robert Melvil affared her, that her belt friends were of opinion, that what the did by compulfion, and in a prifon, could have no power to bind her; and of this the was aifo affured by Throgmorton, the Englihh ambafiador, in a letter which Sir Robert Melvil brought in the fcabbard of his fiword. Mary therefore, forlorn and helpiefs, could not refift the barbarous rudenefs with which Lindfay, preffed the fublcription of the papers, though the would not read them. live days after, the lords of the fecret council met at S:irling, for the coronation of the young prince, and confidered themielves as reprefenting the three eikates of the kingdom. A protellation was made in the name of the duke of Chatelherault, that this folemnity fhuuld neither prejudge his rights of fucceffion nor thofe of the other princes of the blood. The young prince being prefented to them, the lords Lindfay and Ruthven appeared, and in the wame of the queen renounced in his favour her right and title to the crown, gave up the papers, which the had fubfcribed, and furrendered the fword, fceptre, and royal crown. After the papers were read, the earls of Morton, Athol, Glencairn, Miar, and Menteith, with the mafter of Graham, the lord Hurae, and Bothwel bifhop of Orkney, reccived the queen's refignation in favour of her fon in the name of the three eflates. After this formality, the earl of Morton, bending his body, and laying his hand on the Scriptures, took the coronation-oath for the prince, engaging that he thould rule according to the laws, and root out all hereties and enemies to the word of God. Adam Bothwel then anointed the prince king of Scotland; a ceremony with which John Knox was difpleafed, as believing it to be of Jewifh invention. This prelate next
delivered to him the fword and the feeptre, and finally put the crosn on his head. In the procilion to the catle from the church, where the i.rauguration was performed, and where Jol.n Knox preached the inaagration fermon, the earl of Athol carried the cro:nn, Morton the Iceptre, Giencaim the fword, and the earl of Mlar carried the prince in his arms. Thefe folemmities D. ${ }^{744}$ received no countenance fr m Elizabeth; and Ihrog. vo. hy morton, by her exprels commaid, was not ireient at E. sabeth. them.
Soun after this ceremony, the earl of Murray return-Muray recd from France; and his prefence gave fuch a Itrength tern irum and firmuefs to his faction, that very little oppofition Fiasce. could be given by the partifans of Mary, who were unfetticd and defpoiciia 3 tor want of a leader. A flost tre pay a time after his arripal, this monilrous hypocrite al i trai- wfis to the tor waited on his diftrefed and infulted fovereign at uron at Lochleven. His defign was to get her to delire him to wobueven, accept of the regency, which he otherwi.e pretended to decline. The queen, unfufficious of the deepneis of his arts, concious of the gratitude he owed lir, and trutheng to his natural affiction, and their tic of a cummon father, received him with a tender welcome. She was in hatre to pour forth her foul to him ; and with tears and lamentations related her condition and her futferings. He heard her with attention: and turned occafionally his difcourfe to the topics which might lead her to open to him her mind without difguife in thofe fituations in which he was moft anxious to obferve it. His eye and his penetration were fully emploved; but her diltrefs awakened not his tendernels. He feemed to be in fufpenfe; and from the guardednel: of his converfation the could gather neither hope nor fear. She begged him to be free with her, as be was ber only friend. He yielded to her intreaties as if with pain and reluctance ; and taking a comprebenfive furvey of her conduct, defcribed it with all the feverity that could affect her moit. He conld difcover no apology for her mifgoverument and diforders; and, with a mortifying plainnefs, he prefled on her confcience and her honour. At times the wept bitterly. Some errors fhe confefled; and againft calumnies fhe warmly vindicated herfelf. But all the could urge in her behalf made no impreffion on him ; and he fpoke to her of the mercy of God as her chief refuge. She was torn with apprehenfions, and nearly diftracted with defpair. He dropped fome words of confolation; and after exprefling an attachment to her interells, gave her his promile to employ all his confequence to fecure her life. As to her liberty, he told her, that to achieve it was beyond all his efforts, and that it was not good for her to defire it. Starting from her feat, the took him in her arme, and kiffing him as her deliverer from the ficaffold, folicited his immediate acceptance of the regency. He declared he had many realons to refufe the regency. Slie imnlored and conjured lim not to abandon her in the extremity of her wretchednefs. There was no other method, flie him to asfaid, by which fhe berfelf could be faved, her fon pro- cept o the teqed, and her realm riphtly governed. He gave way to her anxiely and folicitations. She befought him to make the moft unbounded ufe of her name and authority, defired him to keep for her the jewels that yet iemained with her, and recommended it to him to get an early poffefion of all the forts of her kingdom. He now took his leave of her, and embracing anew this pi-

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Scollan. . ous traitor, fhe fent her bleffing with him to the puince her fon.
748 Miferable
fate of
Bothwel.

749
Letters
forged be-
tween
Mary and
Buthwel.

750
Sorvants of Bothwel
executed, who declare the innocence of the queen.

In the mean time the wretched earl of Bothwel was fruggling with the greatef difficulties. Sir William Murray and Kirkaldy of Grange had put to fea in fearch of him. He had been obliged to exercife piracy in order to fubfilt himelf and his followers. His purfuers came on him unexpectedly at the Orkney illands, and took three of his thips; hut he himfelf made his efcape. Soon after, having feized a Turkilh trader on the coaft of Norway, two fhips of war belonging to the king of Denmark gave chace to him as a pirate. An engagement enfued, in which Bothwel was taken. His officers and mariners were hanged in Denmark; but Bothwel himifelf, being known by fome Scotiin merchants, had his life fpared. He was thrown, however, into a dungeon, where he remained ten years; and at laft died melancholy and diftracted. The regent fent commiffioners to the king of Denmark to demand him as a prifoner; but that prince, confidering him as a traitor and ufurper, totally difregarded his requef.

The dreadful fate of Bothwel did not make any alteration in the fituation of the queen. Her enemies, bent on calumniating her, produced letters, which they faid were written and fent by her to that licentious nobleman during the life of the king. Thefe letters are now generally admitted to have been forged by the rebels themfelves, who practifed likewife on fome fervants of Bothwel to accufe the queen of the murder of her hufband. The letters for fome time gained credit; but the confeffions of the fervants were all in her favour. When on the fcaffold, they addreffed themfelves to the people; and after having folemnly declared the innocence of the queen, they protefted before God and his angels, that the earl of Bothwel had informed them that the earls of Murray and Morton were the contrivers of the king's

75 r
The queen eícapes
:rompriion. murder.

It was impoffible that fuch tranfactions could advance the popularity of the regent. His unbounded ambition and cruelty to his fovereign began at laft to open the eyes of the nation; and a party was forming itfelf in favour of the queen. She had been often meditating her efcape from prifon; and fhe at laft effected it by means of a young gentleman George Douglas, brother to her keeper, who had fallen in love with her. On the 2d
An. 150 . day of May 1568 , abuut feven u'clock in the evening, when her keeper was at fupper with his family, George Douglas, pufferfing himfelf of the keys of the caftle, haftened to her apartment, and conducted her out of prifon. Having locked the gates of the caftle, they immediatcly entered a boat which waited for them; and being rowed acrofs the lake, the lord Seton received the queen with a chofen band of horiemen in complete armour. That night he conveyed her to his houle of Niddrie in Weft Lothian; where having refted a few hours, fhe fet out for Hamilton.

The efcape of the queen threw her enemies into the greateft confternation. Many forfook the regent open-
752 ly ; and ftill more made their fubmiffions privately, or The regert concealed themfelves. He did not, however, defpond; raites an but refolved to defend himfelf by force of arms. The army. queen foon found herfelf at the head of 6000 men , and the regent oppofed her with 4000 . Marv, however, did not think it proper to rik \& battle; knowing the capacity of the regent as a general, and that his officers
were all men of aperoved valour and experience. But Scotiand. in this prudent refolution fle was overruled by the impetuofity of her troops. A battle was fought on the Mary's 753 $13^{\text {th }}$ of May 1568 , at Langfide near Glafgow; in Marmy dewhich Mary's army was defeated, and her laft hopes feated at blatted. The unfortunate queen tied towards Kirkcud- Langide bright; where finding a place of fafety, fhe deliberated near Glation the plan the thould afterwards follow. The refult of gow: her deliberations, as frequently happens in cafes of perplexity, led her to take the worft poffible flep. Notwithflanding all the perfidy which the had found in Elizabeth, Mary could not think that fhe would now refufe to afford her a refuge in her dominions; and therefore deternined to retire into England. To this fhe had She 754 been folicited by Elizabeth during her confinement in to fly ivios Lochleven cafle; and the now refolved, in oppofition Engiand, to the advice of her moft faithful counlellors, to make the fatal experiment.

In obedience to her order, the lord Herries addreffed and puiss a letter to Mr Lauder, the deputy-commander at Car-her defign lile; and after detailing her defeat at Langfide, defired in execir to know if the might truft herfelf on Englifh ground. ${ }^{\text {tion. }}$ This officer wrote inftantly an anfwer, in uhich he faid, that the lord Scroop the warden of the frontiers being abfent, he could not of his private authority give a formal affurance in a matter which concerned the fate of a queen : but that he would fend by pof to his court to know the pleafure of his fovereign ; and that if in the mean time any neceffity fhould force Mary to Carlifle, he would receive her with joy, and protect her againft her enemies. Mary, however, before the meflenger could return, had embarked in a fifting boat with 16 attendants. In a few hours fhe landed at Wirkington in Cumberland; and from thence fhe proceeded to Cockermouth, where fhe continued till Mr Lauder, having affembled the gentlemen of the country, conducted her with the greateft refpet to the caftle of Carlife.

To Flizabeth the announced her arrival in a dif- Announces patch, which defcribed her late misfortunes in general her arrival and pathetic terms, and in which fhe expreffed an ear- ot Elizaneff folicitude to pay ler a vifit at court, and the deep fenfe the entertained of her friendflip and generofity. The queen of England, by obliging and polite letters, condoled with her on ber fituation, and gave her affurances of all the favour and protection that were due to the juffice of her caufe. But as they wers not accompanied with an invitation to London, Mary took the alarm. She thought it expedient to infruet Lord Fleming to repair to France; and the intrufted Lord Herries with a moft preffing remonflrance to Elizabeth. Her anxiety for an interview in order to vindicate her conduct, her ability to do fo in the moft fatisfactory her preffes manner, and her power to explain the ingratitude, the interview. crimes, and the perfidy of her eneniies, were urged to this princefs. A delay in the ftate of her affairs was reprefented as nearly equivalent to abfolute deffruction. An immediate proof was therefore requefted from Elizabeth of the fincerity of her profeffions. If fie was unvilling to admit into her prefence a quuen, a relation, and a frierd, the was reminded, that as Mary's entrance into her dominions had been voluntary, her departure ought to be equally free and unreftrained. She valied the protection of the queen of England above that of every other potentate on earth; but if it could not be

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grantec, the would folicit the amity, and implore the aid, of powers who would commiferate her allictions, and be forward to relieve them. Anidft remonitrance:, however, which were fo juft and natural, Mary did not f:il to give thanks to Elizabeth for the courtefy with which the had bitherto been treated in the caftle of Carlifle. She allo took the opportunity of begging that this princefs would avert the cruelty of the regent from her adherents, and engage him not tu wafte her kingdon with hottility and ravages; and the had the prudence to pay her compliments in an affiectionate letter to Secretary Cecil, and to court his kind offices in extricating her from her dificulties and troubles.

But the queen of England was not to be moved by remonftrances. The voluntaly offer of Mary to plead her caule in the prefence of Elizabeth, and to fatisfy all her fcruples was rejected. Her difafters were a matter rather of exultation than of pity. The deliberations of the Englifh queen, and thofe of her flatefmen, were not directed by maxims of equity, of compaffion, or of generofisy. They confidered the flight of Mary into England as an incident that was fortunate and favourable to them; and they were folicitous to adopt thofe meafures which might enable them to draw from it the greateit profit and advantage. If the queen of Scots were aliowed to return to her own dominions, it was probable that the would foon be in a condition to dellroy the earl of Murray and his faction, who were the friends of England. The houfe of Hamilton, who were now zealous in the interefts of France, would rife to confideration and power. England would be kept in perpetnal broils on the frontiers; 1reland would receive moleftation from the Scots, and its diffurbances grow important and dangerous. Mary would renew with redoubled ardour her defigns againft the Proteltant religion; and a Fiench army would again be introduced into Scotland. For theie reafons, Elizabeth and her miniflers determining not to reftore the queen of Scots to her throne, confidered what might be the probable conlequences of permating her to remain at liberly in England. In this fitustion, the would augment the number of her partizans, fend her emlffaries to every quarter, and inculcate her title to the crown. Foreign ambaffadors would afford her aid, and take a thare in her intrigues; and Scolland, where there was fo high an objeet to be gained, would enter with cordiality into her views. This plan being alfo hazardous, it was deliberated whether the queen of Scots might not be allowed to take a voyare to France. But all the pretenfons which had hitherto threatened the cro*n of Elizabeth would in this cafe be revived. A frong refentment to her would even urge Mary and Charles IX. to the boldeft and moft defperate enterprifes. The party of the queen of Scots in England, frong from motives of religion and affection, and from difcontents and the love of change, would timulate their anger and ambition. England had now no territories in France. $\Lambda$ war with that country and with Scolland would involve the greateft dangers. On revolving thefe meafures and topics, Eliz betli and her coundellers were induced to confine ier. conclude, that it was by far the wifeft expedient to keep the quteen of Scots in confinement, to invent method to auyment her dil'refs, to give countenance to the regent, and to hold her kingdom in dependence and fubiection.

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In confequence of this cruel and unjuf refoluti:n, satars. Mary was acquainted, that the could wot be almitted to leiicabeth's prefer:e till the b.ad eleared herfelf of Elizaleth the: crimes imputed to lier; the was wanned not to think refies to of introducing Firench troops into Scolla d and it was admitetebinted, that for the more lecurity the ought to be re-quece into moved farther from the frontier. This mellage at orce her pre Glowed Mary the imprudence of her condust in truting herfelf to Elizabeth. But the error collt not now be remedied. She was watchal to prevent her efeape, and all her remonftrances were vain. The earl of Nurray had offered to accule her; and it was at laft consluded that Elizabeh could not, confifiently with her own honour and the tranquillity of her government, fuffer the queen of Scots to come into her prefence, to depart out of England, or to be rellored to her dignity, till her caufe thould be tried and decided. An order wasmary i* given to remove her from Carlifle caitle to a place of remuvid Ilrength at a greater diftance frum the borders, to con-troin Cas fine lier more clofely, and to guand againtt all poffibility clice, and of an efcape.
suarded.
In confequence of thefc extraordinary tranfactions, a trial took place, perhaps the molt remarkable for its injuftice and partiality of any recorded in hittory. Mary, confined and apprehenfive, fuomitted to be tried as they thought proper. The regent, who was to be the accufer, was fummoned into England, and commiffiuners were appointed on both fides. On the $4^{\text {th }}$ of October, the commiffioners met at York; and four days atter, Commicthe deputies of the queen of Scots were called to make known their complaints. They related the moft mate-mect at rial circumitances of the cruel ufage fhe had received. York. Their accufations were an alarming introduction to the bufinefs in which the regent had embarked; and notwithfanding the encouragement fhown to him by Elizabeth, he was affailed by apprebenfions. The artifices of Maitland added to his alarms. Inftead of pro- Infamous ceeding inflantly to defend himfelf, or to accufe the behavisur queen, he fought permiffion to relate his doubts and of Murray. fcruples to the Englifh commiffioners. In his own rame, and with the concurrence of his affociates, he demanded whether they had fufficient authority from Elizabeth to pronounce, in the cafe of the murder, Guilty or not guilty, according to the evidence that fhould be laid before them; whether they would actually exercife this power ; whether, in the event of her criminality, their fovereign flould be delivered to him and his friends, or detained in England in fuch a way as that no danger fhould enfue from her activity; and whether on her conviction, the queen of England would allow his proceedings, and thafe of his party, to be proper, maintain the government of the young king, and fupport him in the regency in the terms of the act of parliament which had confirmed him in that office. To thefe requifitions, it was anlivered, on the part of the Euglifi deputies, that their commiffion was fo ample, that they could enter on and procecd in the controverfy; and that they had liberty to declare, that their fovereign would not reffore the queen of Scats to her crown, if fatisfactory |roofs of her crime fhould be produced; but that they knew not, and were not inftructed to fay, in what manner the would finally conduct herfelf as to her perfon and punihment. With regard to the fovereignty of the prince, and the regency of the earl of Murray, they were points, they oblerved, which
might

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$S$-olland. night be canvaffed at a future period. Theie replies did not pleafe the regent and his affociates; and they requifted the Englith commilioners to traulmit their doubts and fcruples to be examined and aalwered by Elizabeth

But while the regent difcovered in this manner his apprehenfions, he yet affirmed that he was able to anfwer the charges brought againth him and his faction; and this being in a great meafure a matter diftinct from the controverly refpecting the murder, he was defired to

His a cufa- the chief concern in the murder of Lord Darnley, poltion againffeffed fuch crodit with the queen, that within three Mary, months after that horrible event, he feized her perfon and led her captive to Dunbar, obtained a divorce from his wife, and married her: that the nobility, being moved with his crimes, did confederate to punifl him; to relieve her from the tyranny of a man who had ravihed her, and who could not be her hufband; and to preferve the life of the prince: that baving taken arms for thele purpofes, the earl marched againtt them; but that, propofing to decide the quarrel by fingle combat, his challenge was accepted: that he declined to enter the litis, and tied: that the queen, preferring his impunity to ber own honour, favoured his efcape by going over to the nobility : that they conducted her to Elinburgh, where they informed her of the motives of their proceedings, requeited her to take the proper fteps againtt him and the other regicides, and intreated her to dillolve her pretended marriage, to take care of her fon, and to confult the tranquillity of her rcalm : that this treatment being offenfive to her, the menaced thein with vengeance, and offered to furrender her crown if they would permit her to poffefs the murderer of her hufvand: that her inflexible mind, and the neceffities of the flate, compelled them to keep her at a diftance from him, and out of the way of a communication with his adherents: that during her confinement, finding herielf fatigued with the troubles of royalty, and untit for them from vexation of finit and the weaknefs of her body and intellect, the freely and of her awn will refigned her crown to her fon, and conttituted the earl of Murray regent ; that the king accordingly had been crowned, and Murray admitted to the regency; that the fanction of the three eftates affembled in parliament having confirmed thefe appointments, an univerfal obedience of the people had enfued, and a fteady adminiftration of juftice had taken place : that certain perfons, however, envions of the public peace and order, had brought her out of prifon, and had engaged to fu'vert the government ; that they had been difappointed in their wicked attemnts; and that it was mof juft and equitable, that the king and the regent fhould be fupported in power, in oppofition to a rebellious and turbulent faction.

This aoolozy, fo imperfe?, fo impudent, and fo irreconcilcable with hiftory, received a complete confutation from the deputies of the queen of Scots. To take arms againf her becaufe Bothwel had her favour, was, they faid, a lame jultification of the earl of Murray and his friends; fince it had never been properly manifefted to her that he was the marderer of her hufband. He had indeed been fufpected of this crime; but had been tried by his pcers, and acquitted. His acquittal had been ratified in parliament, and had obtained the exprefs approbation of the party who were
now fo loud in accufing him, and who had confpied siotiond. againt her autioniiy. Thele relels bad even urged her to accomplilh her marsiage with him, had recommended him as the fitteit perion to govern the realin, and had fubfcribed a bond afferting his innoceuce, and binding themfclves to challenge and punifh all his advelfaries and opponents. They had never, either before or after the mariage, like true fubjects, adverufed the queen of his guilt, till, having experience of their ffreugth, they fecretly took arms, and invefted her in Borthwick caltle. The firf mark of their dilpleafure was the found of a trumpet in hoftility, and the difplay of warlike banners. She made her eicape to Dunbar; and they returning to Edinburgh, levied troops, iiliued proclamations, took the field againft her, under pretence of delivering her from has tyranny, and got pofiefion of her perfon. She was willing to prevent the effufion of blood, and was very far from preferring his impunity to her honour. Kirkaldy of Grange, in obedience to inftructions from them, defired her to caule him to retire, and invited her eo pafs to them under the promife of being ferved and obeyed as their fovereign. She confented, and Kirkaldy taking Bothwel by the band, recomasended it to him to depart, and affured him that no man wouid purfue him. It was by their own conttivance that he tled; and it was in their power to have taken him: but they fhowed not the fmallef delire to mate him their prifoner. He remained, toc, for fome time in the kingciom, and was unmoletted by them; and it was not till he was on the feas that they affected to go in fearch of him. When fle furrendered herfelf in the Ggitt of their army, the earl of Morton ratized the Itipulations of Kirkaldy, made obeifance to her in their names, and promiled her ail the fervice and honour which had ever been paid to any of her predeceffors. They were not flaves, however, to their engagements. They carried her to Euinburgh, but did not lodge her in her palace. She was committed to the house of a burgeis, and treated with the vilent indignities. She indeed bruke out into menaces, and threatened them; nor was this a matter either of blame or of wonder. But it was utterly fal'e that fle liad ever made any offer of giving away her crown, if fhe might poffels Bothwel. In the midit of her fufferings, fhe had even required them by Secretary Maitland to fpecify their complaints, and befought them to allow her to appear in parliament, and to join and affit in feeking a remedy to them from the wifdom of the three eftates. This overture, hawever, fo falutary and fubmifinve, they abfolutely rejected.They were animated by purpoles of ambition, and had not in view a redrefs of griovances. They forced ber from her capizal in the ni弓ht, and imprifoned her in Lochleven; and there, they affirm, being exhaufted with the toils of goternment and the languors of fickne's. the, without conflraipt of folicitation, refigned ber crown to her fon, and appoizsed the earl of Murray to be regent during lis minority. This indecd was to affume an unlimited power over facts; but the truth could neither be concetled, fubverted, nor palliated. She was in the vigour of youth, unaffailed by maladies, and without any infirmity that could induce her to furrender the government of her kingdon. Nor was it un', nown to them that the earl of Athol and the barons Tullibardin and Lethington, principal men of their

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Scorlare council, difpatched Sir Robert Melvil to her with a ring and prefents, with a recommendation to lubicribe whatever papers thould be laid before her, as the only means in her power to lave her lite, and with an allurance that wint the did under captivity could not operate to her injury. Melvil, too, communicated to her an intimation in wriing from Sir Nicholas Throgmorton, which gave her the fame advice and the fame allurance. To Sir Nivicholas Throgmorton the fent an anfwer, informing him that fhe would follow his counfel; and enjoining him to declare to his millreis her haplel's flate, and that her refignation of her crown was contlrained. Nor did this ambaffacior neglect her commiffon ; and it was a popular perfuafion that Elizabeth would have marched an arnyy to her relief, if the had not been intimidated by the threats of the rebels, that the blood of the queen of Scots would be the wages of her foldiers. It was alfo not to be contradicted, that when the lord Lindfay prefented to his fovereign the intlruments of refignation, he menaced her with a clofer prifon and a fpeedy death if the thould refufe to fubforibe them. It was under an extreme terror, and with many tears, that fhe put her name to them. She did not confider them as her deeds; did not read them; and protelted, that when fie was at liberty, the would difavow lubferiptions which had been extorted from her. Eren Douglas, the keeper of I.ochleven, could not endure to be a witnels of the violence employed againtt her. He doparted out of her preience, that he might not lee her furrender her rigbts againt her will; and he fought and obtained from her a certificate, that he was not acceffiry to this compulfion ard outrage. Nor was it confiftent with the flighteft probability or reafon, that fhe would, of her own accord, execute a refignation of her royal ellate, and retain no provifion for her future maintenance. Tet by the ee extraordinary deeds, the condition to which hlue was reduced was moft milerable and wretched. For no portion of her revenue was referved to her, and no fecurity of any kind was granted either for her liberty or her life. As to the coronation of the prince, it could have no validity, being tounded in a pretended and forced refignation. It was alfo defective in form ; for thore were in Scotland more than a hundred earis, bifhops, and lords; and of thefe the whole, or at leaft the major part, ought to concur in matters of importance. Now there did not affit in it more than four earls, fix lords, one bihop, and two or three abbots. Proteftations, too, were openly made, that nothing tranfafted at that period thould be any prejudice to the queen, her eftate, and the blood-royal of Scotland, neither could it be rightly conceived, that if the queen had willingly furrendered her dignities, the would have named the earl of Murray to the regency in preference to the duke of Chatelherault, who had a natural and proper claim to it, and who had deferved well of hor country by difcharging that high office during her minority. As to the ratification of the inveftiture of the young prince, and the regency of the earl of Mlurray, by the eflates, it was obfervable, that this was done in an illegal parliament. It was an invalid confirmation of deeds which in themfelves had no inherent power or efficacy. The principal nobility, too, objected in this parliament to this ratification. Proteftations were made tefore the lords of the articles, as well as before the three effates, to interrupt and defcat tranfactions which

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were hotile to the conftitution and the lawe. Nor 'cethan. was it true that the government of the king and the regent was univeraliy obeyed, and adminileced with equity and approbation : for a great divifion of the nobility never acknowledged any authority but that of the queen, and never held any courts but in her name; and it was notorious, that the adminiltration of the ufurpers had been marked and dininguithed by enormous cruelties and oppreffions. Many honoural:le families and loyal fubjects had been perfecuted to ruin, and plundered of their wealth, to gratify the retainers and foldiers who upheld this infolent domination ; and murder and bloodihed, theft and rapine, were prevalent to a degree unheard of for many ages. On all thefe accounts, it w:s inferred, that Elizabeth ought to fupport the queen of Scots, to retlore her to her crown, and to overthrow the power of a moit unnatural and rebellious faction.

To thefe facts the regent did not pretend to make pres irs any objection; and though required by the Erglifn ane to commifioners to produce better reafons for his trent-rep'y. ment of the queen, he did not advance any thing in his own behalf. He even allowed the charges of trealon and ufurpation to be preffed againf him, without prefuming to anfwer. This furprifing behaviour, which might readily have been conffrued into an acknowledg. ment of his guilt, it feems, proceeded from fome conferences which he lad with the duke of Norfolk. This nobleman was a zealous partizan for the fuccefion of Mary to the Englift crown. He was itrongly poffiffed with the opinion, that his miffrefs, while the was difpofed to gratify her animofity and jealoufies againit the queen of Scots, was fecretly refolved, by fixing a fain on her, to exclude her altogether from the fucceffion, and to involve her fon in lier difgrace. He was eager to defeat a purpofe, which he conceived to be not only unjuft in t!felf, but lighly detrimental to his country. It was in his power to act with this view; and lee obferved with pleafure, that Maitland of Lethingon was favourable to Mary. 'To this ftatefman, accordingly, he ventured to exprefs his furprife, that the regent conid be allured to think of an attempt to blameable as that of criminating his fovereign. If Mary had really given offence by mitcarriage and miftakes, it was not the huf:nels of a good fuhje:t indulltioully to hold her ont to fcorn. Anxious and repeated conferences were held by them; and at length it was formally agreed, that the regent thould not accufe the queen of Scots; and that the duke in return thould protect him in the favour of Elizabeth, and fecure him in the poffeffion of his regency.
But while the regent engaged himfelf in this in- Mir $7^{75-}$ trigue with the duke of Nortolk, he was defirous not-tre.n in iwithflanding of gratifying the refentments of Eliza-d dixe: beth, and of advancing his own interefts by undermin. and bypo. ing fecre ly the fame and reputation of his fovercign. vify. He inftructed Maitland, George Buchanan, Iames Macgill, and John Wood, to po to the duke of Nirfoil:, the earl of Suffes, and Sir Ralph Sadler, and to communicate to them as private perfons, and 110 in their character of commifioners, the letters to Bothwel, and the oiker prools on which he affirmed the guilt of the queen of Scots. It was his defire that they floolld examine thefe papers, give their opinion of them to V :Lizabeth, and inform him whether lise judged them fuf-

Siot'uid. ficient evidences of Nary's concern in the murder of her hufbant. If this frould be her opinion, he teltified his 0 on readineis, and that of his affuciates, to fivear that the papers were genuine, and of the hand-writing of the queen. By this operation, he was folicitous to eftablith his vouchers as incontettable, and as teltimonics of record. The commiffioners examined his papers, and heard the comments of Buchanan and his other allittants; but they do not feem to have given them much credit. They defcribed them, however, to Elizabeth; pointed out the places of them which were Atrongeft againft Mary ; and allowed that their force and meaning were very great, is their genuinenefs could be demonftrated. But of their genuinenefs they acknowledged that they had no other evidence than ftout a!fertions, and the ofier of oaths. The earl of Suffex, in a private difpatch to Secretary Cecil, does more than

- Robertfon infinuate *, that he thought Mary would be able to
of Dal- prove the letters palpable forgeries; and with refpect meny's Hi- to the murder of the king, he declares in plain terms, story, \&ic. book iv.

Scottilh deputies would not exhibit their charge or cri- Scot'and. mination. Having deceived Mary therefure with fair promifes, fhe was active in gaining over the regent to her views; which having done, he at laft confented to prefer his accufation againit Mary before the commiffioners, who now met at Wettminfter by the comroand of Elizabeth. The charge was expreffed in general and ${ }^{763}$ prin Arties of prefurnptive terms. It affrmed, that as James earl of the queen's Dothwel was the chief executor of the murder of King accufation. Henry, fo the queen was his perfuader and countel in the device ; that fiee was a maintainer and fortifier of this unnatural deed, by fopping an enquiry into it and preventing its punithment, and by taking in marriage the principal regicide; that they had begun to exercife a cruel tyranny in the commonwealth, and had formed a refolution of deftroying the innocent prince, and of transferring the crown from the true line of its kings to a bloody murderer and a godlefs tyrant; and that the eftates of the realm, finding her unworthy of reigning, had ordered her to refign the crown, her fon to be crowned, and the earl of Murray to be eftablifhed in the regency. Before this accufation was preferred, the earl of Lenox prefented himfelf before the Englifh commiffioners; made a lamentable declaration of his grie:s, and produced to them the letters which had peffed between him and Mary concerning the murder, with a writing which contained a direct affirmation of her guilt.

The deputies of Mary were aftonifhed at this accufa-Remon ${ }^{769}$ tion, being a violent infringement of a proteftation which frances of they had formerly given in, and which had been accept- the Scots ed, namely, that the crown, eftate, perfon, and honour of the queen of Scots, fhould be guarded againit every affault and injury ; yet in all thele particulars ftee was touched and affected. It was underflood that no judicial procecdings thould take place againft her; yet fle was actuaily arraigned as a criminal, and her deputics were called on to defend her. They difcovered not, however, any apprehenfion of the validity of the charge; and while they fully cxplained the motives which actuated the earl of Murray and his faction in their proceedings, they imputed to perfons among themfelves the guilt of the king's murder. They affirmed, that the queen's adverfaries were the accomplices of Bothwel; that they had fubfcribed a bond corfpiring the death of the king; and that their guilt had been attefted in the fight of 12,000 fectators by thofe of their confederates who had already been executed. They exclaimed againft the enormous ingratitude, and the unparalleled audacity of men, who could forget fo completely all the obligations which they owed to their fovereign ; and who, not fatisfied with ufurping her power, could even charge her with a murder which they themelelves had commiticd. They reprefinted the ftrong neceffity which had arifen for the fulleft vindication of their miftrefs; and they faid, that in fo weighty an extremity, they could not poflibly fuppoie that the would be reArained from appearing in her own defence. They had her inftructions, if her honcur was touched, to mahe this requifition; and till it was granted, they infilted, that all proceedings in the conference fhould be at an end. A refufal of this liberty, in the fituation to which fle was driven, would be an infallible proof that no goorl was intended her. It was their wifh to deal with fincerity and uprightnefs; and they were perfuad-

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Scotland ed, that without a proper freedum of defence, their $\xrightarrow[\text { queen would neceffarily fall a victim to partiality and }]{ }$ injultice. They therefore earneftly preffed the Eng. lith commilfioners, that fhe might be permitted to prefent herfelf before Elizabeth, the nobles of England, and the ambaifadors of foreign nations, in order to manifeft to the world the injuries the had fuffered, and her innocence.

After having made thefe firited reprefentations to the Englith eommifioners, the deputies of Mary defred to have acceis to the queen of England. They admitted to were admitted accordingly to an andience; and in a an andience formal addrefs or petition they detailed what had hapby Elizabeth, pened, infifted that the liberty of perfonal defence fhould be allowed to their miftrefs, and demanded that the earl of Murray and his affociates thould be taken into cuftody, till they thould anfwer to fuch charges as might be preferred againft them. She defired to have fome time to turn her thoughts to matters of fuch great importance; and told them, that they might foon expect to hear from her.

The bilhop of Rofs, and the other deputies of Mary, in the mean time, ftruck with the perfidious management of the conference, convinced of the jealoufics and paffions of Elizabeth, fenfible that her poser over her commiffioners was unlimited, and anxious for the deliverance of their miftrefs, made an overture for an accommodation to the earl of Leicefter and Sir William Cecil. They propofed, that the original meaning of the conference fhould fill be adhered to, notivithftanding the accufation which had been prefented by the earl of Murray ; and that Elizabeth, difregarding it as an effort of faction, fhould come to a good agreement with Mary and her fubjects. For this fcheme, which is fo expreffive of their fufpicions of Elizabeth and of her commifioners, they had no authority from their milfrefs. They acknowledged accordingly, that it was made without her inftructions, and intimated that they were moved to it by their anxiety for peace and the re-eftablithment of the affairs of the Secttilh nation. They were introduced at Hampton-court to Elizabeth; who liftened to their motion, and was averfe to it. They then repeated the defires of the petition they had prefented to her; but the did not think it right that the queen of Scots fhould as yet have the liberty of defending herfelf in perfon. She confeffed, indeed, that it was reafonable
which was fo alarming to the intereits of their queen; and if it was adopted, the might expest that a proteft againtt its valility rould be lodged with her commilfioners.

The Eriglifh commifioners refumed the conference, Aiteration and were about to demand from the ear? of Murray netween the proofs with which be could lupport lis accufation, the comThe bifhop of Rols and his afiociates being admitted ${ }^{\text {mufficners. }}$ to them, expreffed themielves in conformity to the converfation they had held with Elizabeth. They declared, that it was unnatural and propoflerous in their fovereign to think of receiving proufs of the guilt of the queen of Scots before flie was heard in her own defence; and they protefted, that in the event of this proceeding, the negociation thould be diffolved, and Elizabeth be difarmed of all power to do any prejudice to her honour, perfon, crown, and eftate. The commiffioners of the Englifh queen were affected with this protellation, and felt more for the honour of their miffrefs than for their own. They refufed to receive it, becaule there were engroffed in it the words of the refufal which Elizabeth had given to the petition for Mary. They did not choofe to authenticate the terms of this refufil by their fubferiptions; and were folicitous to fupprefs fo palpable a memorial of her iniquity. They alleged, that the language of her refufal had not been taken down with accuracy; and they preffed Mary's deputies to prefent a fimpler form of proteftation. The bithop of Rofs and his colleagues yielded not, however, immediately to their infidious importunity; but, repeating anew their proteftation as they had at firft planned it, included the exprefs words of Elizabeth; and, when compelled by the power of the commiffioners to expunge the language of the Englith queen, they flill infilled on their proteftation. An interruption was thus given to the validity of any future proceedings which might affect the reputation of the queen of Scots. The earls of Murray and Morton, with their friends, were very much difappointed. For they had folaced themfelves with the hope of a triumph before there was a victory; and thought of obtaining a decree from Elizabeth, which, while it fhould pronounce the queen of Scots to be an adulterefs and a murderer, would exalt them to the flation and character of virtuous men and honourable fubjects.

Though the conference ought naturally to have ter- Elizabeth minated on this proteftation of the deputies of Mary demands againit the imjollice of Elizabeth, yct it did not fatisfy vouchers of the latter princefs that the accufation only had been lad to Madelivered to her commiffioners: fhe was ferioully dif-ry's charge. pofed to propofe a juclicial production of its vouchers. The charge would thus have a more regular afpect, asd be a founder foundation on which to build, not only the infamy of the Scottith queen, but her orm juftification for the part the had acted. Her commifhoners accordingly, after the biflop of Rofs and his colleagucs had retired, difregarding their protellation, called on the earl of Slumay and his affociates to make their appearance. The pretence, however, emploved for drawing from him his papers whs fufficiently arthul, and bears the marks of that fyllematic duplicity which to thamefully characterizes all the tranfactions of Elizabeth at this period. Sir Nicholas IS.icon the lord keeper addreffed himfelf to the earl of Murrav. Ife faid, that, in tiue opinion of tbe queen of England, it w..s a matte:

Scutland. Atange and furprifing, that he fhould accufe his fovereign of a crime moll horrible, odious to God and man, againt law and nature; and whici, if proved to be true, would render her infamous through all the kingdoms of the world. But though he had to widely forgotten his duty, yet Elizabeth had not renounced her love of a good filler, a good neighbour, and a good friend ; and it was her will that be and his company fhould produce the papers by which they imagined they were able to maintain their accufation. The earl of Murray, in his turn, was not wanting in diffimulation. He expreffed himfelf to be very forry for the high difpleafure he had given to Elizabeth by his charge againtt Mary, and for the obftinacy of the Scottifh queen and her deputies, which made it neceffiry for him to vindicate himfelf by difcovering her difhonour. Under the load of this double and affected forrow, he made an actual and formal exhibition of the vouchers by which he pretended to fix and effablifh her criminality. A particular account and examination of thefe vouchers, the reader will find in our life of Mary, and in the works to which we have there reetered.
To enumerate all the fhifts to which Elizabeth and the adverfaries of Mary were put, in order to make the frange evidence that was produced wear fome degree of plaufibility, would far exceed our bounds. It is fufficient to fay, that after having wearied themfelves with prevarication and fallehood; after having prefled Mary to abdicate her crown, a requifition with which the never would comply; and after having finally refufed to hear her in her own defence; Elizabeth, on the 10th of January 1569 , gave leave to the earl of Marray and his accomplices to depart her dominions; telling them, that fince they came into England, nothing had been objected to them which could hurt their honour as men, or affect their aliegiance as fubjects. At the fame time the told them, that they had prodaced no information or evidence by which fhe was entitled to conccive any bad opinion of the queen of Sco:s. It was therefore her pleafure to allow the affairs of Scotland to continue precifely in the condition in which they were fituated at the beginning of the conference. Three days ater thic, they formally took their leave of the qaien of England. The deputies of Mary zemonftratal, prutefted, and argued, to no purpofe; the Englifh privy-council, with the moft provoking indifference, twid them, that "the earl of Murray had promiled to their lovercign, for himfelf and his company, to return to England at any time the fhould call on him. But, in the mean time, the queen of Scots could not, for many ftrong reafons, be permitted to take her departure out of England. As to her deputies, they would more Elizabeth to allorr them to return to Scotland; and they believed that the would not detain them."

ALary was exceedingly difappointed and chagrined by this fingular iffue of her cauie. Her fricnds during this period had increafed, and the crucl and injurious treatment fhe had met wih was fo flagrant, that the earl of Murray and his faction were apprehenfive of a fudiden reverle of fortune. The earls of Argyle and Huntly protefted againtt the injuftire of their proceedings, at the lame time that ther openly accufed the earl of Murray and Maitland of Lethington as the aliocriates of Borth el in the murder of the king. This charge, according to the cuftom of the times, they offered to
prove as true and certain by the law of arms; and they Scothat. protefted, that if their adverfaries fhould delay to anfwer their challenge, they foould be held as confilling themSelves guilty of the murder. Elizabeth, however, forefeeing fomething of this kind, had difinified Murray and his adherents with precipitation, fo that there could now be no formal production of it before the Englifh commiffioners. It was known and publifhed, however, in the court of Elizabeth. Murray made an evafive reply, and Lethington made none at all.

This, however, afforded no relief to the unhappy queen of Scotland. Her inveterate and treacherous enemy held her faft, and endeavoured by every method in her power to render her life miferable. Mary, on the other hand, loft neither her fpirit nor her dignity. She attempted to roufe in the minds of her nobles that paffion for liberty which had once fo much diftinguifhed the Scottifh nation, but which now feemed to be exchanged for a fervile fubjection to the queen of England. But fome difpatches which urged thefe topics being intercepted, Nary was removed from Bolten to Tut'ury caille, where flie was intrufted to the earl of Shrewibury, and committed to clofer confinement than fhe had yet experienced; while Elizabeth difperfed manifeftoes all over the northern counties of England, complaining of reports injurious to her honour, and difclaiming all hoftile intentions towards the liberties of Scotland.
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In the mean time Murray returned to Scotland, The regent where he took every method of eftablifling himfelf in fectur.s his ill acquired power. Mary had commanded the duke pewer. of Chatelherault to return to Scotland, in order to raife forces for her advantage; but this nobleman had been long detained in England by the artifices of Elizabeth, fo that Murray had arrived there before him. The duke, however, began to raife forces, and might have proved a troublefome antagonift, had not Murrey deceived him by a pretended negociation, and got him into his power ; immediately after which he imprifoned him, and forced moft of the other lords who were on that fide to fubmit.

When the news of this important event reached the queen of Scots, fhe inftructed the bifhop of Rofs to repair to Elizateth, and to make remontlrances in their Negucta behalf. By the agency of this ecclefiaflic, whom fhe tions in had conftituted her ambafiador, fhe meant to conduct her tranfactions with the queen of England; and from the conclufion of the conferences, the had been meditating a proper plan on which to accomplith her liberty and reftoration. The bifhop of Rofs, after complaining loudly of the rigorous proceedings of the regent, and intimating the general belief which prevailed that he was fupporied by the Englifh court, preffed the propricty of a final fettlement of the affairs of his miftrefs. With this view, he was adroitted by Elizabeth and her privy-counfellors to frequent conferences; and they even defired him to prefent to them in writing the articles which he was commanded to propofe as the fourdation of a treaty. He failed not to comply with this injunction ; and it was the import of his fchedule of agreement, that Mary fhould engage never to moleft Elizabeth, and the lawfil lieirs of her body, refpeeting the fucceftion to the crown of England and Ireland, if the could obtain fufficient fecurity that on their demife her rights would be refpected; that a new treats of alliance

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S:otland. and friendilip fhould be concluded between the two quecns, by the advice of the eftates of both kingdoms ; that this leagte thould be ratixied by their ouths and ienls, and cominned by parliameatary acts; and, if any farsher affurance thould be deemed necelary on the pert of Mary, that ihe would procure the kings of France and Spain to be the guaramiees of ber punctuality and concord; that in compliance with the pleature of Elizabeth, the would extend her clemency to all her fubjects who had offended her, under the provifion that they would fubmit to her lovere guty, deliver up the prince her fon, rellure her caftles, give back her jewels, and furrender to her friends and fervants the eltates and polfeffions of which they had been deprived; that the murder of the king thould be punitied againlt all the actors in it witbout delay, and according to the laws; that to prevent Bothwel trom returning to Scotland, and to pleafe thofe who imagined that it was in his power to excile ferments and trouble, the would be bound to inftitute a procefs of divorce againt him; and that thefe articles being adjulled, the queen of England thould allow her to proceed to Scotland, under a fate and honourabie convoy, to be re-eltablihied by the three eltates is her realim and government, and to be gratified with the diflulution of all the acts and itatutes which had been paffed to her prejudice.

Thefe heads of alliance were received with a refpect and cordiality which were not ufually paid to the tranfactions of Mary in the court of Elizabeth; and the bilhup of Rofs was elated with expectation. Their juftice, however, was not the fole, or even the chief, caule of this attention and complailance. A combination of the Englith nobles had taken place againft Cecil, whofe power and credit were obiects of indignation and jealou' $y$; and the duke of Norfolk had been active and fucceisful in promoting the fcheme of his marriage with the queen of Scots. Taking advantage of the condition of parties, he had practifed with the principal nobility to encourage his pretenfions to Mary; and be fecretly communicated to them the promifes of fupport he had received from the earl of Murray. By the advice and influence of Sir Nicholas Throgmorton, he engaged in his behalf the earl of Leicelker; and this nobleman imparted the matter to the earls of Pembroke and Arundel. The duke himfelf was able to conciliate the favour of the earls of Derby, Bedford, Shrewibury, Southampton, Northampton, Northumberland, Weftmoreland, and Suffex. In the mean time, he was eagerly preffing Mary herfelf with his fuit and importunities; and had mutually exchanged the tokens of a conflant and fincere love. It was in this forward ftate of the match, that the bifhop of Rofs drew up the fcheduie of articles for the accommodation of the rival queens.

At the defire of Elizabeth, her privy-council conferred with the bilhop on thefe articles at different times; and they expreffed themfelves highly pleafed with their general import. Little doubt was entertained of their fuccefs; and the earl of Leicefler, in order to complete the bufinefs, and to ferve the duke of Norfolk, undertook to give them a more fecial force, and to improve them by the introduction of a fipulation about the marriage of the queen of Scots. According to his feheme of agreement, it was required of Mary, that the fhould be a party to no attempt againt the rights and titles of
the queen of England, or her heirs; that the fhould Scotland. conlent to a perpetual league, oitenfive and defeafive, between the two kingdoms; that fhe fhould finally eftab:ith the Protelant religion in Scotland; that the thuuld admit to her favour tnole of her lubjects who had appeared againit her ; that if the had made any alfignment of her kingdom to the duke of Anjou, in the expectation of a marriage to be contracted between them, it thould be difiolved; and that innead of looking to a foreign prince, whofe alliance would be dangeruus, not only to the religion but to the liberty of the two realms, the would agree to marry the duke of Norfolk, the firit peer of Ligland. Thele articles being communicated to the bithop of Rofs, lie was defired to traulmit them to Mary ; but as they touched on fome points concerning which he had no influctions, he declined this office, and recommended the propaicty of their employing a fpecial mefienger of their own in a commition of luch high importance. They accordingly appointed Mr Candith to go with them to the queen of Scots, and, in a formal dupatch, they extolled the merits of the duke of Norfolk; aflured her of the general favour and fupport of the Englifh nobility, if the thould approve of his love : and intimated their belief that Elibabeth would not be averfe to a marriage which gave the certain profpect of tranquillity and happinefs to the two kingdoms. This difpatch was in the hand-writing of Leicelter; and it was fubfcribed by this nobleman, and the earls of Arundel and Pembroke, and the lord Lumley.

Mary, in the folitude of her prifon, received this ap- $7_{75}^{78}$ plication with pleafure. By the lord Boyd fthe return-grees to the ed a very favourable anfwer to it; but took the liberty treaty proto admonifl them of the neceffity of their fecuring the good-will of Elizabeth, left her dillike of the treaty of the marriage fhould excite new difafters and misfortunes, and involve the duke of Norfolk in inconvenience and danger. This advice, the fuggeftion of her delicacy and prudence, did not draw their attention fufficiently. The duke of Norfolk was now impatient to conclude this great tranfaction, in which he had engaged himlelf; and admitted into his councils many nobles whom he had hitherto neglected to court, and many gentlemen who were confiderable from their diftinction and fortunes. The countenance and confent of the kings of France and Spain were thought nectfiry to the meafures in agitation, and were dolicited and obtained. In the univerfality of the applaufe with which they were honoured, it was fuppofed that Elizabeth would be allured into a cordial acknowledgement of their propriety, or be compellied to affond them a reluctant approbation; and fo ardent a belief prevailed of their fortunate termination, that the marriage-contract was actually intrufted to the keeping of M. Fenelon the Frencla ambaflador.

The activity of the duke of Norfolk with the Englifh nobies did not fo much engrofs his attention as to make him forget the regent. He kept up a cl fe correfpondence with him in confequence of the coicert into which they had entered, and received the moit auple affurances of his fidelity and fervice. The moll 1.11guine and reducing lopes elated him. The resent, while he flipulated for terms of favour and fecurity to himfelf and bis faction, appeared to be full of the marriage, as a meafure from which the greatell advantages

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8 sotiand. would arife to the two kingdoms, to the two queens, $\xrightarrow{\text { se- }}$ and to the true religion. The match, in the meantime, was anxioutly concealed from Elizabeth; but the was zealutily puified to conclude an accommodation will Mary, on the foundation of the fchedule of agreemets prelented by the bifhop of Rofs. Afier having hal many conferences with her priyy-council, fhe leemed inclined to treat definitively for the reltoration of the queen of Scots, and actually agreed to open the tras lact on to the regent. The lord Boyd was fent into Scotiand on this bufinefs; and while he carried her levters, he was intiufted with difpatches from Mary, the duke of Norfolk, and Sir Nicholas Throgmorton.

As the regent was returning from his northern expedition, be was faluted at Elgin by the lord Boyd, who immediately laid before him the difpatches and inftructions with which he had been charged. The queen of England, in her letters, made three propofitions in behalf of Mary, and intimated a defire that one of them fhould be accepted. The queen of Scots, fhe faid, might be reftored fully and abfolutely to her royal effate : fhe might be affociated in the government with her fon, have the title of queen, and, till the prince fhould attain the age of 17 years, the adminiftration might continue in the regent; or the might be permitted to return to Scotland in a private ffation, and have an honourable appointment to maintain her in a fafe and happy obfcurity. The difpatches from Mary to the regent defired, that judges might immediately be allowed to inquire into the legality of her marriage with Bothwel: and that, if it was found to have been concluded in oppofition to the laws, it fhould be declared void, and that the liberty be granted to her of entering again into a matrimonial engagement. The duke of Norfolk expreffed to the regent the gratitude he felt for his friendfhip; promifed him the command of the fulleft exertions of his confequence and power ; intreated him to proceed expeditioully in promoting the bufinefs of the marriage, and referred him to the inftructions of lord Boyd for a fatisfactory anfwer to any doubts which might give him difguft or uneafinefs. By the letters of Throgmorton, the regent was advertifed that the marriage of the queen of Scots with the duke of Norfolk was a certain and decided point ; and he was counfelled to concur heartily and expeditioufly in this tranfaction, that his conicut might not feem to have been extorted. Maitland of Lethirgton was recommended to him by this flatefman, ns the perfon whom he fhould choofe to reprefent him in the Englifh court, as he could negociate beft the terms and mode of his fecurity and of that of his party. In fine, Throgmorton intreated him not to be troubled with any precife feruples or objections, for that his overthrow, if he refifted, would be inevitable; and, in the view of his fervices and cordiality, he aflured him, that no man's friendflip would be accepted with greater arfection, and no man's eftimation be higher or more fortunate. The zeal of Throgmorton induced him alfo, on this occafion, to addrefs to Maitland a difpatch, in which he was infinitely importunate to haften his expedition to England, in the character to which he recommended him. He complimented him as the fitteft perfon to open the match to the Englifh queen, on the part of the regent and the Scottifh nobility; and he reprefented the fuccefs of the fcheme to be infallible, as Elizabeth would
never be fo unnife as to put her own fafely, the peace Scolknd. of her kingdom, and the prefervation of her people, in competition with the partiai devices that might proceed frum the vanity and the pafions of any perfon whatever. Hie enumerated the names of the Englifh nobility who had confederated to promote the marriage. He eniarged on it as an expedient full of wildom, and as advantageous in the higheef deg:ee to religion and the state. He pointed out the lafting and infeparabie comection of England and Sootiand, as its happy and undoubted confequence. For, if James VI. fhould die, the feeptres of the two kingdons might devolve on an Englith prince; and if he thould attain to manhood, he might marry the daughter of the duke of Norfolk, and unite, in his perfon, the two ciowns.

Theie weighty difpatches fully employed the thoughts Delioera- $7^{85}$. of the regent. The calls of juitice and humanity were tion of the loud in the behalf of Mary; his engagements to Nor- ettates on folk were precife and definitive ; and the commifion of the reftoraElizabeth afforded him the command of the molt im-the queen. portant fervices. But, on the other hand, the reltoration of Mary, and her marriage, would put an end for ever to his greatnefs; and, amidf all the flipulations which could be made for his protection, the enormity of his guilt was ftill haunting him with fufpicions and terror. His ambition and his felfifh fenfibilities were an overmatch for his virtue. He practifed with his partizans to throw obflacles in the way of the treaty and the marriage; and, on pretence of deliberating concerning the refloration of Mary, and on her divorce from Bothwel, a convention of the eftates was fummoned by him to affemble at Perth. To this affembly the letters of Elizabeth were recited; and her propofitions were confidered in their order. The full reiloration of Mary to her dignity was accounted injurious to the authority of the king, and her aflociation with her fon in the government was judged improper and dangerous; but it was thought that her deliverance from prifon, and her reduction to a private flation, were reafonable expedients. No defnitive treaty, however, was pronounced. The letters of Mary were then communicated to this council, and gave rife to vehement debates. She had witten and fubfcribed them in her charater of queen of Scotland. This carriage was termed infolent and imperious by the friends of the regent. They alfo held it unfafe to examine her requefts, till they fhould be communicated to Elizabeth; and they infinuated, that fome inclement and partial device was concealed under the purpofe of her divorce from the earl of Bothivel. The favourers of Mary endeavoured to apologize for the form of the letters, by throrsing the blame on her fecretaries; and engaged, that while the commiffaries, or judges, were proceeding in the bufinefs of the divorce, new difpatches in the proper method fhould be applied for and procured. They were heard with evident fymptoms of difpleafure; and exclaimed, " that it was wonderful to them, that thofe very ferfons who had lately been fo violent for the feparation of the queen and Bothwel fhould now he fo averfe to it." The partifans of the regent replied, "that if the quees was fo eagerly folicitous to procure the disorce, fle might apply to the king of Denmark to execute Bothwel as the murderer of her hufband; and that then fhe might marry the perlon who was moort agrecable to her." The paffions of the two factions

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but her proime had induced her to deflroy all the Sow : evideic s o! luer tranfactions whth the duhe of Nor- $\underbrace{\text { - }}$ fulk; and the culicious alliduity of this jailor was oniy rewaind witl : 5 c; f'ers which he colld not comprehe d. The dometi i , hom the favourcd were infpeted and ditiofied. Her trin of ettondank was dimimfled. An unrelenting watch was kipt o er her. No couliens were allowed to carry her dil, atches. No medengers were admitted to her P efe. co ; and all the letters arom her friends were orderd to te intencepted, and to le conveyed to the queen of Englind.

The procecdings of the convintion at Perth were af ${ }^{7}$ it flicting to Elizabeth, to Mary, and to the duke of $t:$ is Norfolk. In the firft they created fujicions of the re. ${ }^{\text {t }}=$ ter gent; and they were a certain annunci: tion to Mary: $\quad$. that he was refolved to fupport himielf in the government of Sco.land. Uncertain rumours had reached Elizabeth of the interviews he had kield with Norfolk in tle bufinefs of the marriage. Her furprife and indignation were unlounded. Mr Wood, who brought from the regent his anfwer to her leter, was trea'cd with difrefpect. Secretary Cecil difjatched inttructions to the lord Hunfdon, the governor of Berwick, to watch his operations with a jealous eye. Elizabeth, by a feecial envoy, required from him an explanation of his ambiguous carringe. The regent, true to lis interells, anol gized to her for his conneetims with the duke of Nortolk, by laying open the defign of that nobleman, to cut hm off, in his way to Scotland, by a full communication of whatever had paffed between them in rclation to Mary, and by offers of an unlimited fubmiffion and otedience.

While the duke of N rfolk was carrying on his in IT urn trigues with Mary, the ch-me of an inlurrection for thon in her deliverance was advancing under the dircation of ${ }^{\text {big }}$ (at the earls of Northumberland and Neltmore?and. NIotives of reiigion were the chief fiundations of this confpiracy ; and the more zealous Catho ics over E d. nd were concerned in it. Niwy, however, by the adsice of the duke of Norfulk, who was afraid of her marrying a foreign prince, did not enter into it widh cordiality. It advanced notwithlianding ; and the agents of the pope were lavilh of exhortations and donatives. The duke of Alva, by order of his matter the king of Spain, encouraged the confpirators with the offer of 27,200 men from the Netherlands; and, under the pretence of adjulling commercial difputes, he fent into Envand C iapini Titelli m-rquis of Celonn, an othicer of al ility, that he misht te at $h$ nd, and prepare to tahe the command of them.- The report of an infurredios wes uiverial. Eliz beth kept an army of 15,00 men near her perfon. 'T e quacen of Scots was remured to Coventry, a place of great ftrength; and if a fuperior and commanding force thould appear b-fore it, her ferocious keeper, it is fid, had orders to affaffinaic her. Re$p$ ated $c$ n minds were fent to the earls of Northumberland and $V \sqrt{\prime 2}$ morelard, to repair to court. But he in prifunt ant of the duke of Noriolk and his triends hid P'ruck a proic it to thom. They cor ceived that their couffin cy wes dilioverad; and p tiing themalres it the head of their foll mers, they iffued their manifillo. The rll , Pin of Popery, the eflablithment of the ctites af May to the Enylihls crown, and the rcformet $n$ of 1 thes in the comm nowe lth, we the arowed - jee of their er lerrie. But they hid embarked 51
 Their chats were feebee aid deintory. The duke of Alra fergit his promites. Whesevir the peace was ci t moed oy infurgents, there were troops to oppote them. T.ee vigilace ot Enzabeth difconcerted with cale the cetut:ons of then whon no refuarces or populerity could have ecreacted to greatre s , and whucould reither conquer $n$ a gie. The eanl of Weitmoreland, atior eonceaning limielf for tome time in Scotland, effected his cfape into Fanders, where he paffed a miferable an: ulclef exifonce; and the eatl of NorthumLeiland being tai en by the regent, was impritoned in the caftle of Locileven.

As the fury of Elizabeth abated, her refentment to the ciake of Norfoll: lon its power; and the failed not to ditinguith between the intrigues of an honourable ambition, and the practices of an oblinate fupertition. It was the refult of the examination of this nobleman, and of the confeflions of the other prifoners, that Lethirgton had fchemed the bufinefs of the marriage, and that the earl of IIurray had encouraged it; that her confent was underitood to be neceffary to its completion; and that Mary herielf had warmly rccommended the expedient of confulting her pleafure. On receiving proper admonitions, the earls of Pembroke, Arundel, the lord Lumley, Sir Nicholas Throgmorton, and the bihop of Rofs, were releafed from confinement ; and, after a more tedious imprifonment, the duke of Norfolk was fet at liberty. This favour, however, was not extended to him till he had not only fubmifively acknowledged his prefumption in the bufinefs of the maniage ; but had fully revealed whatever had paffed between him and Mary, and folemnly engaged never more to think of this alliance, and never more to take any concern whatever in her affairs.

The regent, in the meanwhile, was very anxious to Maitlard of L-thing ton acculed o. Darnley's murder. recover the good opinion of Elizabeth. Her treatment of Mr Wood, and her difcovery of his pratices, bad excied his apprehentians. He therefore affembled at Stirling a convention of the eflates; and taking her lct- ters a fecond time into confideration, returned her a reply by Robert Pitcairn abbot of Dunfermline, in a ftyle frited to her temper and jealoufies, and from which fhe could decifively infer, that no favour of any kind would be fhown to the queen of Scots. But this bafe condeficenfion, though affifited by bis treachery to the duke of Norfolk, not being fufficient, in his opinion, to draw completely to him the cordiality of the queen of England, he was preparing to gratify her with another facrifice. The partiality of Mailand to Mary, and his intrigues with Norfolk and the Englih malcontents, had rendered him uncemmonly obnoxious to Elizabeth and her miniftry. The late commotions had been chiefly afcribod to his arts; and it was natural to dread new calamities and tumults from the fertile fpring of his invention. Under pretence of employing his fervice in difpatches to England, the regent invited him to Stirling. He was then with the earl of Athol at Perth; and fufpecting fome improper defigr, he obeyed the fummons rith reluctance. When he took his place in the privycouncil, Captain Crawford, the minuion of the earl of Lenox, who had diftinguifhed himfelf in the trial of Mary, accufed him, in direct ierms, of being a party in the murder of the late Ling. The regent affected aftonifhment, but permiued him to be taken into cufto-
dy. He was foon after fent to Edinburgh under a Scotiand: guard, and admonifhed to prepare for his trial. On Dimilar charges, the lord Setoa and Sir James Balfour were feized on and impritoned.

Kirkaldy of Grange, the governor of the caille of He is proEXinburgh, who was warmly attached to Maitland, af-teeted by ter having in vain remonltrated widl the regent on the Kirkaldy of violence of his conduct, employed addrefs and frata- Grange. gem in the fervice of his friend. Under the cover of night, he went with a guard of foldiers to the lodging where Maitland was confined; and fhowing a forged warrant for taking his perion into cuffody, got polleffion of him. Kirkaloy had now in his cattle the duke of Chatelherault, the Jord Herries, and Maitland. The regent fent for him to a conference; but he refufed to obey his meflage. He fut himfelf and his fortrefs under the direction of his prifoners. The regent, condefcending to pay him a rifit, was more lavirh than tual of his promifes and kindnefs. His arts, however, only excited the didain of this generous foldier. Since he could not lead out Maitland to the block, he inftitated a procel's of treafon againft him, in onder to forfeit his effates. Kirkaldy, by the mouth of a trumpeter, defired him to commence fimilar actions againft the earl of Morton and Mr Archibald Douglas, as it was notorious that they were parties to the king's mutder. This meflenger was likewife charged with delivering a challenge from him to Mr Archibald Douglas, and another from the lord Herries to the earl of Morton. This difappointment, and thefe indignities, made a deep imprefion on the regent; and, in a thoughtful diffatisfied humour, about this time, he made a flort progrefs towards the Englith border, courting popularity, and deforving it, by an attention to order and juftice.

Elizabeth, flattered by his fubmilive advances, and Eliz ${ }^{793}$ pleafed with his ambition, was now difpofed to gratify agrees to his fulleft wihes; and the perceived, that by delivering deliver up to him the queen of Scots, fhe would effectually relieve mary regent herfelf of a prifoner whofe vigour and intrigues were a conftant interruption to her repole. A treaty for this purpole was entered into and concluded. The regent was to march an army to the Englifh frontiers, and to reccive from her his fovereign into her own dominions, the victim of his power, and the fport of his paffions. No hoflages and no fecurity were fipulated for her entertainment and good ufage. His authority over her was to be without any limits. On bis part, be was to deliver to Elizabeth the young prince, to put her in peffeffion of the principal forts of Scotland, and to affitt her with troops on the event of a war with France. This treaty, fo fatal to Mary, and fo ruinous to the independence of Scotland, efcaped not the vigilance of the bihop of Rofs. He complained of it in the ftrongeft terms to Elizabeth; and declared it to be equivalent to a fentence of death againft his miftrefs. The ambaffadors of France and Spain were alfo ftrenuous in their remonftrances to her on this fubject. All refiftance, however, was unavailing; and the execution of the treaty feemed inevitable. Yet how vain are the loftielt fchemes of buman pride! The career of the regent was haftening to its crifis; and the hand of an afs faffin put a period to his dream of royalty. Scotland did not lofe its liberties; but Mary continued to be unfortunate.

## S C O

$\underbrace{\text { Scotiand. }}$
Tames Humilton of Bothwelhavgh, who had been taken prifoner at the battle of Langfide, obtained his liberty and life; but his effates were forfeited.-His wife, the heirefs of Woodhounlie, retired on this emergency to her paternal inheritance, in the hope that it might efcape the rapacity of the rezent. He had, however, given it away to one of his farourites, Sir James Ballenden ; and the inftruments of his power having the inhumanity to ftrip her of her garments, and to turn her naked out of her houfe, in a cold and dark night, the became diftracted before the morning. Hamilton yowed revenge; and the regent made a mockery of his threats. This contempt infpirited his paffions; and the humiliation of the houfe of Hamilton, to which he "as nearly allied, foltered the eagernefs of his difcontent. The madnefs of party all ted fuel to his rage. Fiis mi.d became reconciled to affalimation. Aftur wateling if fome time a proper opportunity to perpetrate his horid purpofe, he found it at Linlihgow. The regent was to pafs through this town on his way from Stirling to Edinburgh. Intimation reached him that Hamilton was now to perpetrate his defign; and he waccountably flighted the intelligence. The affafin, in a houle thit belonged to the archbihop of St Andrew's, waited deliberately his approach; and firing his mulket from a window, flot him through the body. The wow ad, when examined, was not judged to be mortal; but the regent finding its pain to increafe, prepared himelf for death; and in a few hours after he expired. A dieet horfe of the abbot of Arbroath's carried the allarin to the palace of Hamilton; and thence he foon after cffected his efcape to France.

The death of the earl of Murray made no favourable alteration in the affairs of Mary. Confution and diforder prevailed throughout the kingdom; and though the friends of the queen were promifed affitance from France, nothing effectual was done for them. At laft the regency was conferred on the earl of Lenox; an enemy to the queen, who treated her friends with the utmoft rigour. At the fame time Elizabeth continued to amufe with negociations her unhappy rival. She granted liberty to the bifhop of Rols to repair to the queen of Scots, who had been removed to Chativorth, and to confer with her on the fubject of the intended treaty. Mary, conforming to the advances of Elizabeth, authorifed the lurd Levingfton to pafs to her dominions, and defire her friends to appoint a deputation of their number to give their affiltance in promoting the falutary purpofe of eftablifhing the tranquillity of their country : and after meeting with fome interruptions on the Englifh borders from the earl of Suffex, this nobleman fuccefffully executed hiscommiffion. The queen's lords gave powers to ten nobles to act in a body, or by two of their number, in the intended negociation: and a fafe-conduct from Elizabet') allowed them to enter the Englifh realm, and to remain in it during fix 796 months.
Articles oi While the lord Levingीon was confulting the inagreement terefts of Mary with her friends in Scotland, the bifhop propofed to ivary by Eliza. beth. Ans 1571. of Rofs was making earneff fuit with Elizabeth to proceed in the projected negociatinn. His folicitations were not ineffectual; and Sir William Cecil and Sir Walter Mildmay received the inftructions of their mi- Arefs to wait on the queen of Scots at Chatfworth. The hrads of accommodation which they propofed were ex-

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plicit; and the rigour which they difcovered towards Scotians. the Scottith princels feemed to prove their fincerity. It was propofed, that a perfeet amity thould t:ke place hetween the two queens; that all the treaties which bud formerly been concluded ly the two nations thould receive an ample confirmation; that the queen of Scotflould ratity the treaty of I.dinburs h, and forbear to advance any tile or cluim to the crown of England curing the lite of Elizabeth, or to t'c. Prejudice of the heirs of her body; that in ce'c of fure n i.s.vations, the two realms thould mutuaily adint each oticer; tha all fore: ${ }^{n}$ t lidiers hiould be ord red to de att ou of S. otland; that in fiture, fram gers of the proter ion of arms thead be prohivited from repuiring to it, and from whing up their relidence in any of it caflcs or houfes of fr enth ; that Misy fit uld hold no conse pondesec, d:rectly or indirectily, with any fubject of England, without the permilfin of the Luglifi queen ; that the earl of Sorthumentand, and the F.nglifh reie! in cooti.nd, fhould be de ivered up to Elizabeth; that redrets thouid be Aven to the fuljects of Eingland for the fpoils taken by them on the Scotim border: that the murdecers of the lord Damley and the carl (f) Miusay hould be duly and effectualiy punithed ; that befure the queen ot Scots fhould be fet at liberty, the young prince ber for frould oe brought into England, and that he thould continue in the keeping of Elizabeth till the death of his motker, or till ber refignation to him of her crown on his attaining majority; that the queen of Scots fliould not enter into a negecialion for her marainge without the knowledge of the queen of England, nor conclude it without her approbation, or that of the greatelt part of the Scottifi nobility; that none of the fubjects of Scotland Chould be fuffered to go to Ireland wihout the fafe-conduct of Elizabeth; and that Miary flould deliver to her filter all the tefimonies and writings which had been fent from France, renouncing and difavowing the pretended marriage between her and the duke of Anjnu. Befides thefe articles of agreement, it was propofed by another treaty to adjuft the difierences of the queen of Scots and ber futjects; and Sir Milliam Cecil and Sir Walier Mildmay embraced the prefent opportunity of con'erring with her on this bufinefs, under pretence of facilitating its management in the future fages of its progrefs.

During their flay at Chatfrorth, thefe flatefmen were ${ }^{31} 797$ is de. completely fatisfied with the behaviour of the queen of Scots. The candour, fincerity, and moderation, which fhe difplayed, were full allurances to them that on her part there was no occafion for apprehending any improper policy or art; and the calamities of her condition were a fill more fecure pledge of her compliance. Elizaheth, on hearing their report, affected to be highly pleafed with her fitter, and fent a meflage to the earl of Lenox, inftructing him in the conditions which had been fubmittel to Mary; and defiring him to difpatch commiffioners into England to deliberate on the treaty, and to confult his interefl and that of his faction. Nor did Mary negleat to tranfmit to her friends in Scotland the propofed terms of agremment, and the bifthop of Rofs, who had alfifted her in the conferences with Sir William Cecil and Sir Walter Mildmay, conveyed intimations of them to the pope, the king of lrance, and the duke of Alva; befought their advice, and informed thefe princes, that enkefs an

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fie al al ielief could be expeetcd from thiti: Savour, the ne - is of her condition would compel her to fubfer: ee to the hard and humiliating dictates of the queen of E द land.
Pat while Mary and her friends were indulging the ho e e of a termination to her troubles, Elizabeth was fec elly giving comfort to her adverfaries, and encouraging them to throw obltacles in the way of the treaty. Sir William Cecil wrote to the regent, exprefsi $g$ his difapprobation of the negociations at Chatfwoth; defring him not to be apprehenfive of the boa lings of the adherents of the queen of Scots; and adviling him to make chnice of commifioners, in the name of the king, on whofe conftancy and fortitude he could rely, and whom no addrefis could allure from his intereft, or from the common caufe in which he and his friends were embarked. The earl of Suffex alfo fent him difpatches, in which he admonilhed him to turn his anxious attention to the approaching negociation, and to infift on fecure ftipulations for the prefervation of the prince, for his own fafety, and for a general indemnity to the nobles and their adherents, whofe party he had efpor fed. In every event, he reprefented it as proper for him to pay thie greateft refpect to Elizabeth; and, if no treaty fhould be concluded, he adviifd him to be prepared for reducing the friends of Mary to obedience, and for defendi.g himfelf againft invafions from abroad. By thefe artifices, the regent and his faction were inclined to intimate to Elizabeth their warm diffatis.action with the terms of agreement which the had pronoled to Mary ; and Pitcairn abbot of Dunfermline, who had bcen apppinted fecretary of fate in th. room of Maitiand of Lethington, was deputed to her on this bulinefs. He exclaimed againft the treaty as wild and im-olitic; and contended, that no ftipulations could bind Mary, whofe religion taught her to ke $p$ no faith with heretics; that lier claims to the En ilih crosin, and ler refentment artiont the queen of E. oland, as well as her wn futjects, would immedia) iy on her reloraion, involve the two kingdoms in blood; and that no pec- or quict could be ex ecied or e fiuyed, but by adl ering to the faluary maxim of detinining her in clole captivity. Elizaceth did not difcourage thele inclement fentiments; and Pitcairn was a Mired by her, that foom her natural I ve to the king, and her regard to the nobles who upl Id his axthority, fle would faitafully provide for their fecurity; aid that if juffice thould appear on their fide, nie would even ftrenuoully maintain their quarrel and their confequence.

Mary lad been carried to Sheffield, and was recovering from a fe erith indifpofition. To this place the bilhop of G lloway and the lo-d Levingtor, wlo had been feleet $d$ by her fix ds to $k \cdot$ her : Sting deputies in Eigland, repaired in order to irpupart to ther the Slate of affitirs in Scotland, and to ricive lier ccmm.nds. Afier repe-ted conference on the fultieet of the appro cling tretv, fhe gave then $1-r$ commiftion and intr-Ei the, and joining hem to the villoo of Rofs, foll them to Elizajeth. They requetted at audience of this privicels, $a^{-} d$ nere admitted to it at H.nptoncourt. Having Ifefet ee their credentials, they informed her, that they were ready to concl-de a treaty of concord and agreement, on pisicic ples the moft extenfive and liberal; and, rep te nting to her thie impove-
rifhed and tumultuous fate of their country, they beg- Scotiand. ged ber to proceed in the bufinefs with expedition. The orders, they faid, which they had received, and their own inclinations, difpofed them to follow her advice and counfel in all points which were honourable and confiffent wich reafon; and as her protection was the only refuge of the adverfaries of their queen, they took the liberly of obferving, that it was completely in her power to put a period to all diffurbances and animofity, and to accomplith an accord, which would not only confer on her the higheft reputation, but be of the moft fignal utility to the two kingdoms. Elizabeth declared, that it would pleafe and flatter her in no common degree to advance in the negociation; and that it was painful to her that the regent, by his delay in fending commiffioners, fhould difcover any averlion to it. This anfwer was deemed very favourable by the bifhop of Rofs and his affociates ; and they obtained her authority to difpatch a meffenger to the regent to haften his operation.
In the mean time, Mary received difpatches from the The Ca- $\begin{gathered}8: 0 \\ \text {. }\end{gathered}$ pope, the king of France, and the duke of Alva; and th li powthey concuried in recommending it to her to accept of the articles of accommodation which were offered by Elizabeth. The Turks were giving employment to the the arcom pope and the king of Spain ; Charles IX. already en- mudation. feebled by the obfinate valour of the Huguenots, was bufy in deceiving them with appearances of peace, and in plotting their overthrow; and the duke of Alva felt himfelf infecure in his government of the Netherlands. But while they firongly advifed Mary to conclude an agreement with the queen of Eugland, they were yet lavill to her of their expreflions of a conitant amity; and if the treaty flould mifcarry, they promifed to make the molt ftrenuous exertions in her behalf, and to affift her adherents with money, ammurition, and troops.

The earl of Morton, the abbot of Dunfermline, and The regent Mr James Macgill, had been appointed by the regent and his faction to be their commiffioners in the name of the king; and at length their arrival was announced to Elizath Conforming to furit of their paty, to Elizade Conforming to the ficit of their party, tey fition the earl of Morton and lis colleagues took an early opportunity of juftifying to her the depofition of the queen of Scots, and by this means to interrupt the progrefs of the treaty. In an eleborate memorial, they affeeted to confider MTay as unworthy to reign, and afferted the conflitutional power of the people to curb her ambition, and to de rade her from royally. They endeavoured to intrench themfelves within the authority of laws, civil, canon, and municipal; and they recited opinions to her prejudice by many pious divines. But though the general p fition, that the people have a title to rel $i t$ the domination of the fovereign is clear and undubitable; yet their application of it to the queen of Sco.s was improper. To fieak of her tyranny, and her viol tien of therigit of her people, tas even a wanton mockery of truth and juftice ; for inftead of I aving affumed an illegal exolbitancy of power, fhe had fufficed in her own pe fon and rights, and lad been treated by her fubjuks with the mol cruel and tyramicel infolence. E zabecth, who wa unvi ling and $\mathrm{a}^{i}$ aid to criter as in in o the conduct of NJary, who wav fully for ible of the infolence of her adverfiries, and wlo did nut approve of any maxims that proffed age iatt the 1 nj ${ }^{\prime}$ fty of prites, received

## $S$ C O

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received their memorial with furpricic and indignation． She perceived not，fhe told them，any rea on that could vindicate the feverity which bad been fhown to the queen of Scots by her enemics；and adwiled them to condider，that in the prefent negociation it was their proper bufinel＇s to confult the fecurity of the king and of their party．

On the part of Eliza＇eth，the commitioners were the lord hecper Bacon，the earls of Suffex and Leiceller，the lord Clynton，the lord chamberlain，Sir IV illiam Cecil， who about this time was created Lord Burl igh，Sir Francis Kiollys，Sir lames Crott，Sir Walier Mïldmay， and Sir Thomas Smith．The deputies of Mary were inv．t－ ed to meet the Englifh commilioners in the houfe of the
lord keeper；and after he had flated the zeneral purpo－ fes of the treaty，he intimated to them，that there were two points which repuired a particular difcuffion．A proper fecurity，he faid ought to be given by the queen of Szots for her due performance of the ftipulations of the agreement with Elizabeth；and it was expedient to concert the mude of the pardon and indemnity which the was to extend to the lu＇jects of Sco land who had offended her．As an effurance of the accommoda－ tion with his mitrel，he comanded，that the duke of Chatelherault，the ear！s of Huntly and Argyle，the lords Hume and Herries，with another perfos of hig＇ rank，thould oe lurreidered to her，and remain in Eng． land for three years；that the callies of Dambirio． 1 and Hume fhould be in her pofflfion during the fame pe－ riud；and as to the article corterning the elivery of the prince in！o her cuitody，he oblerved，that it Chould be required from the re $e_{0}$ it，the quicca of Souts not hav－ ing the power of its performance． $1^{4}=$ dorutios of Mary，furprifed with this langulge，in resed the Eng． lihh delegates to reflect，that their queen it de，rived of the molt faithtul of her nobles，a d of her itrongeit forts，could have litle defire or ani ition to return to her own kingdom；for fue would thus be unable to pro－ tee？herfelf againt the turbulence of her fu jects，and be a fovercign vithout fieids，and withut ilreagth． They were inclined，they laid，to put their comm fion and power；to the fulleit ttretch，in order to gra ify Eli－ zabeth；awl they would agree，tiat two earls and two barons hould be iurie ：－red fur two years，as ho ages of the fildity o their fovereign；under the retrictive， that hay might be ex：rianged every fix monhs for per－ fo sof an enisl condivin，if they thouid bedelirous of retul ing to th ir onn ovanry．As to e givi 8 up of ary forts ur chal is，they would not a ree to it，bue e
 clims might ta uade by the King of Frasce，of the f．${ }^{\prime}$ it of the trealy of Edinhurgh，which hi ulated，that no French or Eng＇ih troops thould b astmitted int？ Scotland．I he lo． 1 keeper Dacon，refuming his dif cousf，thld dex m，the the whole red $n$ of Scotland，its
 the queen of L g lud；and t at， i ．his atvice thould be follourd．the que－i of Scon would ot brain her li－

 delegates of Lars，no furbier atwornc－canthe rewired

 iy in a copmic whichas a．e ruiness ad in． 1 einbie，it is
unjerflood that a foundation is fought to break of the Scotlani．． negociation．The Englifh commilianers，now interfe－ ring in a ，body，declared on their honour，that it was the meaning of Llzabeth to agree to the reftoration of the gueen of Scots to her crown and realm on receiving futhicent affursuces for the articles of the accommoda－ tion；tl at the fccurity offered for her acceptance，floould be fubmitted to her deliveration；and that they would imin diately proceed to confer with the deputies from the． king of Scots．

The Englith commifioners were not unacquainted ar 1 with with the fentiments of the earl of Morton and his col－th K．ng＇s leagucs；and it was from this quarter that they expec－deputiess ted a rufolute and definitive interruption to the treaty． Nor did thefe delegates difappoint the expectations con－ ceived of them．After affecting to take a comprehen－ five view of the articles under debate，they declared， that their commiffion gave them nuthority to treat about the amity of the two kingdoms，and the maintenance of the true religion；but that it conferred on them no power to receive their queen into Scotland，or to furrender to Elizabeth the perfon of their ling．They therefore begged not to be urged to accede to a league which，at fonie future period，might expofe them to a charge of high trealor．

This fingular decl．r ti in was confldered to be folid $E$ and weighty by the Englith comniflioners ；and，in a new cu ference，it was communic ted by them to the de guties of Mary．The bithop of liofs and his afo－ ciates vere di wita with this form．．1 impertinence． Whey did not lelirife in pronownce the plea of an in－ futicient comatition from the kit s to his delegates to be an unwouth $\because$ ．and moft fivoluns fubiernage．The a． $1^{-\cdot}$ s，they $l^{\prime}$ ，of the depoition of their fovereign did not neal ony asfority bat their own to fet her at lively；the pii．e ris not yet five years of age，and coutl give them no initructions：and the regent was wholly dap－n ent on the will and pleafure of the queen of Enigland．It was reprecented in re urn by the E glifh de＇egates，that the cummilion of Kin James to his deputies，having been perufed by Eizabeth，was accu：led 1 y her to be infufficint；and that it was her opinion，that the earl of Morton frould return to Scothand to Fold a pardiament for obtaining new powers． The bi hop of Fiofs evelumed，that the queen of $\mathrm{Sc}^{-}$ts had $b$ ben amufed rith deccifful promiles，that the pru－ dence o．Elizabeth had been corrupted by partial coun－ f．：，：1 J th t the ailegations and pretences held out for il en ir ig the negrociation were affecied and ureal． The intr bions，he lid，from his fovereign o her com－ mitio ers，wsee to negrolive and to conclude，and not to thile；and hey would not by any mears confent to Ir $\%$ ，Ly rtiaciol $\mathrm{d} \cdot \stackrel{c}{ }$ ，a treaty ul ich the quem of 1 ngl add，if her inker．．．ons wele frucure and right， could imm diately termate on re fon－bie and ho－ nour－terms．Ifis foce ha his demeanour he ac－ $k$ whalned to be free and open；and he befought them t，cife him，fince，havi g been made an inltru－ meit to sute his nitirefs witi f．tlie ho ee，he could tu ：refent the in diguity，a d exprofo what he ki ew a 1 ＂＂it he felt．Thie $\log { }^{1 \prime \prime}$ h deputies，addrefling hi isid l－colle gue，ol cerverl，that as the friends of Mary，an tho＇c of the hing her fon，cou＇］not come to an as＇ecme＇，and as their onecn wan re－
fred

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Scothani. fufed the affurance the expected, they held their commiftion to be at an end, and were no longer at liberty to negociate.

The infincerity of Elizabeth, and the failure of the league or agreement, filled Mary with refentment and complaints. Her animofities, and thofe of Elizabeth, were increafed. She was in hafte to communicate to her allies the unworthy treatment fhe had rcceived; and fhe fent her commands to her adherents in Scotland to rife in arms, to repofe no trult in truces which were prejudicial and treacherous, and to employ all their refources and Atrength in the humiliation of the regent and his faction. Elizabeth, who by this time apprehended no enterprife or danger from Charles 1X. or the duke of Alva, refolved, on the other hand, to give a ftrong and effectual fupport to James's friends, and to difunite by ftratagem, and opprefs by power, the partizans of the Scottifh princefs. The zeal of the bilhop of Rofs having raifed her anger, the commanded him to depart from London; and Mary, in contempt of her mandate, ordered him to remain there under the privilege of her ambaffador. The high and unbroken fpirit of the Scottifh queen, in the midit of her misfortunes, never once awakened the generous admiration of Elizabeth. While it uniformly inflamed her rage, it feems allo to have excited her terror. With a pufillanimous meannefs, the fent a difpatch to the earl of Shrewfory, inftructing him to keep his charge in the clofeft confinement, and to be inceflantly on his guard to prevent her efcape. He obeyed, and regretted her feverity. The expence, retinue, and domeftics, of the queen of Scots, were diminiffed and reduced, and every probable means by which fhe might endeavour to obtain her liberty were removed from her. The rigours, however, that invaded her perfon could not reach her mind; and fhe pitied the tyrant that could add contumely to oppreffion, and deny her even the comforts of a prifon.

All this time Scotland was involved in the miferies of civil war. The friends of Mary were everywhere punifhed with fines and forfeiture. Private families took the opportunity of the public confufion to rcrenge their quarrels againit each other. Individuals of every denomination ranged themfelves on the fide either of the regent or of the queen, and took a fhare in the hoftilities of their country. Fathers divided againft fons, and fons againft their fathers. Acts of outrage and violence were committed in every quarter, while, amidf the general confufion, religion was made the pretence by both parties.
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The regent taken pri-
foner, and
put to
death.
In the mean time, though many encounters took place between the two factions, yet neither party feems to have been conducted by leaders of any fill in military affairs. This year, in one of thefe \{kirmiflee, the regent himfelf was taken prifoner by a party of the queen's faction, and put to death. But this event made little alteration in the affairs of the nation. The easl of Mar, another of the queen's enemies, was chofen to the regency: but though he propofed to act againft her party with rigour, he was baffled before Edinburgh caftle, which was ftill beld by her friends; and fome bloody firmifhes were fought in the north, where victory declared in favour of the queen. Thefe advantages, however, were more than compenfated to the other party by the following event.

While the negociations with Elizabeth for Mary's reforation were depending, the fecheme of a confpi-
racy for her deiverance was communicated to her by Robert Ridolphi a Florentine, who lived in London for many years as a merchant, and who was fecretly an agent for the court of Rome. But to his letters, while the fate of the treaty was uncertain, fhe returned no reply. Its mifcarriage, through the duplicity of Elizabeth, recalled them forcibly to her attention, and ftimulated her to feek the accomplifhment of her liberty by meafures bolder and more arduous than any which fhe had hitherto employed. She drew up in cipher an ample difcourfe of his communications and of her fituation, and dilpatched it to the bifhop of Rofs, together with letters for the duke of Norfolk. Her initructions to this ccclefiallic were to convey the difcourle and letters expeditioufly to Norfolk, and to concert an interview between that nobleman and Ridolphi. The confidential fervants by whom the duke acted with the bihhop of Rofs were Bannitter and Barker; and Laving received from them the difcourfe and the letters, they were deciphered by Hickford his fecretary. Having confidered them maturely, he delivered them to Hickford, with orders to commit them to the flames. His orders, however, were difobeyed; and Hickford depolited them, with other papers of confequence, under the mats of the duke's bedchamber. The contents of the difcourfe and the letters awakening the hope and ambition of Norfolk, he was impatient to fee Ridolphi ; and the bifhop of Rofs foon brought them together. Ridolphi, whole ability was excited by motives of religion and intereit, exert ed all his eloquence and addrefs to engage the duke to put himfelf at the head of a rebellion againft his fovereign. He reprefented to him, that there could not be a fealon more proper than the prefent for achieving the overthrow of Elizabeth. Many perfons who had enjoyed authority and credit under her predeceflors were much difguted; the Catholics were numerous and incenfed; the younger fons of the gentry were languifh. ing in poverty and inaction in every quarter of the kingdom; and there were multitudes difpoled to infurrection from refllefinefs, the love of change, and the ardour of enterprile. He infinuated that his rank, popularity, and fortune, enabled him to take the command of fuch perfons with infinite advantage. He infifted on his imprifonment and the outrages he had fuftained from Elizabeth; reprefented the contempt to which he would expofe himfelf by a tame fubmiffion to thefe wrongs; extolled the propriety with which he might give way to his indignation and revenge; and pointed out the glory he might purchafe by the humiliation of the enemies, and by the full accomplifiment of his marriage with the queen of Scots. To give ftrength and confirmation to thefe topics, he produced a long lift of the names of noblemen and gentiemen with whom he had practifed, and whom he affirmed to be ready to hazard their lises and riches for a revolution in the ftate, if the duke would enter into it with cordiality. To fix decifively the duke, he now opened to him the expectations with which he might flatter himfelf from abroad. The pope, he affured him, had already provided 100,000 crowns for the enterprife; and if Popery flould be advanced in England, he would cheerfully defray the whole chatges of the war. The king of Spain would fupply 4000 horfe and 6000 foot, which might be landed at Harwich. Charles IX. was devotedly attached to the queen of Scots, notwithftanding the treaty which had been enter-

## i C O [743] $\quad\left[\begin{array}{ll}7 & \mathrm{C} \\ \hline\end{array}\right.$

Scotlard. ed into with Elizabeth for her marriage with his brother the duke of Anjou : and when he foold difcover that, on the pat of the E.- lifh princels, this matrimonial fcheme was no better than a ciesice or a mockery, he would renoutce the apgearance of frizudlhip whicis !s bad aflumed, and retur to his natural leniments of difdain and hatred with redoub'ed violence. In fine, he warged, that white lie $m$ bit depend on the affitance and arms of the greatett primecs of Chriltendom, le wo lld intitie himkit to the admiration of a!l of them by his mas nanisious eff:ts and generous gallantry in the caufe of a queen fo beauitul and fo unfortuate.

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The duke of Norfolk, allured by appearances fo plautible at d flattoring, did not foruple to forget the duties of a fubject, and the fabmiffive obligation in which he had bound himfelf to Elizabet's never more to intersere in the affairs of the Scottilh princefs. Pidolpai, in this forward flate of the bufinet, advifed him to addrels letters to the pope, the king of Spain, and the duke of Alva, expreflive of his concurrence in the defign, and exciting their activity and refolutions. He even produced difpatches framed for this purpofe; and while be intreated the duke to fubferibe them, he offered to carry them himfelf to Flanders, Rome, and Spain. The duke of Norfolk, who was ambitious and timid, difpofed to treafon, and unfit for it, hefitated whether he fhould fubferibe the letters; and at length refufed to proceed to that extremity. He yet allowed the bifhop of Rofs, and Barker his fervant to go to the Spanifh ambaffador to expref, his approbation of the meafures of Ridolphi, to acknowledge that the letters were according to his mind, and to empower this Ratefman to certify their authenticity to his court. Ridolphi full of hopes, fet out to execute his commif. fion. He paffed firft to the duke of Alva, to whom he communicated the tranfactions in which he had been engaged, and with whom he held many conferences. There was at this time at Bruffels Charles Bailly, a fervant of the queen of Scots; and Ridolphi, after difclofing to him his proceedings with Alva, entrufted him with letters to her, to the duke of Norfolk, the Sparifh ambaffador, and the bifhop of Rofs. When this meflenger reached Calais, a letter was delivered to him from the bifhop of Rofs, deffring him to leave lis dilpatches with the governor of that place. From incxperience and vanity he neglected this notice ; and being fearehed at Dover, his letters, books, and clothes were feized, and he himfelf fent to London, and imprifoned in the Marfhalfea. The bifhop of Rofs, full of apprehenfions, applied to Lord Cobham, the warden of the cinque ports, who was friendly to the duke of Norfolk; and obtaining by his means the packet of difpatches from Ridolphi, he fubftituted another in its place, which contained letters of no danger or ufefulnefs. He had alfo the dexterity to convey intelligence of this trick to Bailly, and to admonih him to preferve a profound filence, and not to be afraid. This fimple and unpractifed agent had, however, excited fufpicions by the fymptoms of terror he had exhibited on being taken, and by exclaiming, that the difpatehes he brought would involve his own deftruction and that of others, At his firf examination he confeffed nothing : but being fent to the tower, and put on the rack, he revealed his converfations with Ridolphi, and declared, that the difpatches which he had brought had been de-
livered to the biftson of Rofs. An order was granted for taking the bilhopinto cutiody. Faring been aware, bowever, of his feriluus fruation, his houle was fearched in vain for treafonable papers; a d he thought to freen himfelf from anfwering any i.terro atorjes under the fanctity of his character as the ambanidor of an independent princels.

An unexpected incident excited, in the meantime, The duke's rew fufpicions and al rms. Mary beit \& defitous offiends and tranfnitiong 2000 crowns to the lord Herries to ad- tervants vance her interefts in Scotland, the duke of Noifolk give eviundertook to convey it to him with fafcty. He intrutt-gainf him. ed it to the charge of his confidants Hickford and Barker, who puting it into a bag with difpatches from their mafter to Lord Herries, ordered a fervant called Brown to carry it to Bannifter; who, being at this time on the border, could forward it to Scotland. Brown, fufpicious or corrupted, inftead of procceding on his errand, carried the bag and its contents to Sir William Cecil, now Lord Burleigh. The privy-council, deeming it treafon to lend money ont of the realm for the ufe of the friends of Mary, whom they affeced to confider as enemies, ordered Hickford and Barker to be apprehended. The rack extorted from them whatever they knew to the prejudice of their mafter. Hickford gave intelligence of the fatal difcourie and the letters from Mary, which he had preferved in oppofition to the orders given to him. All the proceedings between the queen of Scots, the duke of Norfolk, the bilhop of Ross, and Ridolphi, were brought to light. A guard was placed on the houfe of the duke of Norfolk, in order to prevent his efcape. Sir lialph Sadler, Sir Thomas Smith, Sir Fienry Neril, and Dr Vilfon, were commiffoned to examine him ; and being impreffed with the belief that the difcourfe and the letters had been deflroyed, he pofitively denied that he had any concern in the affairs of the queen of Scots, or any knowledge of them whatever. He was committed to the tower a clofe priloner. Bauniller by this time was taken; and lie confirmed the relations of Hickford and Ratker. In the courfe of their difcoveries, there appeared reafons of fufpicion againit many perfons of rank and diftinction. The earls of Arundel and Southampton, the lord Cobham, Mr Thomas Cobham his brother, Sir Thomas Stanley, Sir Hensy Percy, and other gentlemen who were friend!y to the queen of Scots and the duke of Norfolk, were ordered to be lodged in different prifons; and the rack, and the expectation of a pardon, drew from them the fullent confeifions. The duke was altogether unable to defend himfelf. The concurring teftimonies of his friends and fervants, with the difcourfe and the letters, which he fondly imagined had been committed to the flams, were communicated to him. He was overwhelmed with amazement and diftrefs; and exclaimed, that he had been betrayed and undone. He made ample acknowled gments of his guilt, and had no foundation of hope but in the mercy of his fovereign.

By the confeffion of the duke himfelf, and from all the inquiries which had been made by the minifters of Elizabeth, it appeared obvious beyond a douht, that $\delta 11$ the bifhop of Ro!s had heen the principal contriver of Dangerous: the confpiracy. Ridolphi had aeted under his direc- and pertion, and he had excited the duke of Norfoik. He had plexing even proceeded to the extremity of advifing that noble- on Bifien aian Le?lv.
 lierents, and to feize boldly the perton of El chets. In his examinations be was treated with great rigour ard joult. Put he made an able defe ice, and roreaptorily refucd to make any anfiwer to interrog:t rics. The counfcllors of Elizabeth were diflurbed with his obfinacy; and having certified him, that the rack would foon renter him more pliznt, he was ordered into clofe confinement in a d. tk apartment of the tower. When he had remained a few days in this mela?choly fituation, four priyy-counfellors, the lord-admiral, the lord Burleigh, Sir Francis Knollye, and Sir Thomas Smith, went to the tower, and caufed him to be brought to them to the lieutenant's lodsing. After having aflued him that he was charged by all the prifoners as the principal contriver of the confriracy, they infiled, in the name of their fuvereizn, that he thould explain fully the part he had acted. The conf Tinns of the duke of Norfolk and his fervante, of the lord Lumley, Sir Thomar Sta: ley, and other gentlemen, with the difcourfe and dipatches of the queen of Scote, were fet before him. They now protetted on their honour, that if he would make a free and open declaation of his proceedings, it thouid be employed neither azaint himfelf, nor againtt any other perfon ; but that if he fhould contitue to be refluie in refufing to give this fatisfaction to their queen, who was anxious to fearch the matter to the bottom, they were inftructed to let him know, that fhe would abfolutely confider him as a private perfon, and order him to be tried and executed as a traitor. In this extremity he accepted the corditions held out to him, and difclofed minutely all the tranfactions of the pri cipal parties in the confpiracy. But while he defcribed the offences of his miftrefs, the duke of Norfolk, and himfelf, he could not avoid to leffen their blame by apologies. It was natusal, he faid, for the queen of Scois to exert the moft Atrenuoss endeavours in her fower to recover her freedom and crown; and the methods fle adopted to obtain lier purpofes ought to be confidered in compiection with the arts of Elizabeth, who pertinacioufly denied her acce's to her prefence, who kept her a clofe prifoner in contempt of all the principles of humanity and juftice, and who afforded an open and pawerful affittance to her enemies. The duke of Norfulk he was carneft to excufe on the foundation of the sdrances which had been made towards lis marriage with the queen of Scots. Their plighted love, and their engagements, did not allow him to forfake her. As for limfelf, he was her rmbiflador and her fervant ; and being tighly indebted to her generofity and lindnefs, he could not abindon her in captivity and divels witho th incurring the guilt of the molf finful trecchery amil ingratitude. The daring propof.t he h.d mode to feize the perfon of Elizabeth was the point, he cblerved, which feemed to prefs on him the moff feverely; an he i treated them to believe, that le had moved it only with the view of trying the courage of the duke of N rook. - The privy counfellors of Elizabeth were now in poffeffion of all the evid ice they could expeet in the ingortant bufnefs. Norf!!k was edmonithed to $p$ epare for hitrial ; and Bifh Lefly percived, thin though he might efcape with hirly.g he wolld neve? mure te permitled to refide in Eng and, a d to act there is the ambaffador, the miniter, and the friend of the queen of Scots.
 a bluw to M1. © $\omega$ the rever recuered. Hy molt faill ul fiend $\quad$ is: langurhing in prions on her account; the h : m , longer the coundels of the bithop of Rot's an I the.$a$ ih ambaffador, who had entered into her conterns wi.h an unferupulous cordiality, had been
oidered to withdraw from Enrland. The trial and conoidered to withdraw from Enriand. The trial and condenmation of Nor.olk foon followed, and plunged her iato the mott calamitous difire.s.

The maflacre of the Proteftants at Paris in $\mathbf{I 5}^{-2}{ }_{513}^{\$_{13}}$ proved allo extremely detrimental to her. It was in-m..if.ir:ci terpreied to be a confequence of the confederacy which Paris. had been formud at Eayonne for the extermination of the reformed. The Proteflants were everywhere tranfported with rage againit the Papits. Elizabeth pre-. pared herfelf againlt an attack from the Catholic powers; and was haunted with the notion that they meant to invade he. Kingdom, and to give it to the queen of Scots. Her am aflador at Paris, Sir Francis Wallingham, augmented ter anprehenfions and terror. He compared her we kaets with the ftrength of her enemies, and affurell her that if they fhould poffefs themfelves oi Scotland, the would foon ceafe to be a queen, He reprefented Alary as the great caufe of the perils that threatened her perfonal lafety and the tranquillity of her kingdom; and as violent difeafes required violent remedies, he fcrupled not to counfel her to unite Scotland death. to her dominions, and to put to death a rival uhofe life was inconfftent with her fecurity. The more bigotted Proteftants of Scotland differed not very widely in their fentiments from Sir Francis Walfingham; while fud of them as were more moder te were fitl more attached to their religion than to Mary; and amidft the indignation and forror into which the fubjects of Scotland were thrown by the fanguinary outriges of Charles IX. and Catharine de Medicie, they fu-veyed the fufferings of their fovereion with a diminifhed fympathy:

This year the regent, finding himfelf befet with difficulties which he could not overcome, and the affairs of the nation involved in confufion from which he could not extricate them, died of melancholy, and was fucceeded by the earl of Morton.

During the regency of the earl of Mar, a remarkable innova ion took place in the church, which deferves to be particularly explained, being no lefs than the introduction of Epifcopacy inftead of the Prefbyterian form of worllip. While the earl of Lev:ox was recent, the archbifhop of St Andren's was put to death, tecaufe he was ftrongly fulpected of having had a concern in the death of the earl of Murray; after which the enl of Morton procured a gramt of the temporalities of that fie. Out of thefe he allotted a llipend to Mr John Douglas, a Proteffant clergemian, who affumed the title of archbifhon. This violence excited cenfure and murmure. In the langunge of the times, it was pronounced to be a prafanation of the kirk, and a high contempt f God; and it underwent the ferutiny of the minifry in applicutions and complaints to the regent. The mitter w.s doubtlefs of too much importance to be overlooked; and a commiffion of privy-counfellors and clergymen was appoin ed in the name of the king 10 inqu re i.nn it, and to reform and improve the policy of t = herch. This commiffion, on the patt of the privycuracil, curifted of the earl of Morton, the lord Ruth-

## S C O

Sectland. ven, Robert abbot of Dinfermline, Mr James Macgill, Sir John Ballenden, and Colin Campbell of Glenorchie; and on the part of the church there were named John Erfkine of Dun, and Mr John Winram, Mr Hay, Mr Lindfay, Mr Pont, and Mr John Craig. The confultations and debates were long; and the influence and management of the earl of Morton directed their determinations. It was refolved, that till the majurity of the king, or till the wifdom of the three eftates fhould be confulted, the titles of archbifhop and bifhop thould continue as in the times which preceded the reformation; and that a chapter of learned minilters fhould be annexed to every metropolitan or cathedral feat. It was determined that the fees, as they became vacant, fhould be given to thofe of the Proteftant miniftry who were moft eminent for their qualifications; that the archbifhops and bifhops fhould exercife no higher jurifdiction than what was permitted to fuperintendants; and that they thould be fubject to the controul of the general affemblies of the church. It was agreed, that all abbots, priors, and other inferior prelates prefented to benefices, fhould be examined by the bifhop or fuperintendant of the diocefe or precinct where the preferment was fituated; and that their fitnefs to reprefent the church in parliament fhould be duly inquired into. It was judged that the king and the regent fhould recommend qualified perfons to vacant bilhoprics, and that the elections of them fhould be made by the chapters of the refpective cathedrals. It was ordered that all benefices with cure under prelacies thould be difpofed of onIy to officiating minifters ; that every minifter fhould receive ordination from the bifhop of the diocefe, or the fuperintendant of the province; and that the bihops and fuperintendants, on the ordination of minifters, thould exact an oath from them to recognize the authority of the king, and to pay canonical obedience to their ordinary in all things that were lawful.

By thefe artful regulations the earl of Morton did not mean folely to confult his own rapacity or that of the nobles. The exaltation of the Proteftant church to be one of the three eftates was a confequence of them; and the clergy being the ftrenuous enemies of Mary, he might by their means fecure a decided influence in parliament. The earl of Mar, as regent, giving his fanction to the proceedings of the commiffion, they were carried into effect. The delufive expectation of wealth, which this revival of Epifcopacy beld out to the miniftry, was flattering to them; and they bore with tolerable patience this fevere blow that was ftruck againtt the religious policy of Geneva. Mr John Douglas was defired to give a fpecimen of his gifts in preaching ; and his election took effect, notwithftanding the oppofition that was made to it by John Knox and other ecclefiaftics, who ftood up for the rules and forms which had been effablifhed at the reformation. He was inaugurated in his office by the bifhop of Caithnefs, Mr John Spotfwood fuperintendant of Lothian, and Mr David Lindfay, who, violating the book of difcipline, communicated to him his character and admiffion by the impofition of hands. This was a fingular triumph to Epifcopacy; and the exaltation of Douglas included other peculiarities remarkable and offenfive. He deniet that he had made any fimoniacal agreement with the earl of Morton ; yet it was known that the revenucs of the archbifhopric were almoft wholly engroffed by that

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nobleman. He had promifed to refign, upon his inftal- Scotiand ment, the office of rector which he lield in the univerfity of St Andrew's: yet he refufed to execute this engagement. He was in a very advanced age ; and his mental qualifications, which had never been eminent, were in a ftate of decay.

A general affembly, which was held at Si Andrew's, confidering the high moment of the nev. regulations introduced into the church, appointed commiffioners to go to John Knox, who was at this time indifpofed, and to confult with him deliberately in his houle, whether they were agreeable to the word of God. But from the arts of the nobles, or from the ficknefs of Knox, it happened that this conference was not carried into effect. In a general affembly, however, which met at Perth, the new polity was reported and examined. The names of archbihop, dean, archdeacon, chancellor, and chapter, were excepted againft as Popifh diflinctions, and as flanderous to the ears of pious Chriftians. A wifh was expreffed that they might be exchanged for titles lefs profane and fuperlitious; and an unanimous proteftation was made, that the new polity was merely a temporary expedient, and fhould only continue till a more perfect order fhould be obtained from the king, the regent, and the nobility. This tolerating refolution left the new polity in its full force; and a colourable foundation was now eftablifhed for the laity to partake in the profits of bifhoprics. The fimoniacal paction of Morton and Douglas was not long a matter of fingularity. Mr James Boyd was appointed to the archbifhopric of Glafgow, Mr James Paton to the bifhopric of Dunkeld, and Mr Andrew Graham to the fee of Dumblain; and thefe compromifing ecclefiaftics, on being allowed competencies to themfelves, gratified their noble friends with the greateft proportion of their revenues. The virtue of the common people approved not this f p rit of traffic; and the bifhops of the new polity were treated openly with reproach or with ridicule.

The year 1572 is alfo remarkable for the death of Death of John Knox, whofe miltaken zeal had contributed not a John Knoxe little to bring on the queen thofe misfortunes with which the was now oppreffed. Neither by his death, however, nor by the change of the regency, could the now be relieved. The earl of Morton was fo mucli devoted to Elizabeth, that he received particular inflructions from her how to govern the young king. His elevation, indeed, gave the finifhing itroke to the queen's affairs. He employed limfelf with fuccefs in dividing her party Elizabeth among themfelves, and by his means the duke of Cha-refolved on telherault and the earl of Huntly were induced to for-parting fake her. As for Elizabeth, the was bent on putting Mary to Mary to death ; but as no crime could be alleged a- death. gainit her in England, fhe thought it proper that flee thould be carried back to fuffer death in her own dominions. This propofal, however, was rejected; and the friends who remained true to Mary once more began to indulge themlelves in hopes of fuccours from France. New misfortunes, however, awaited them.-The caftle The catte of Edinburgh, which lad hitherto been held for the ffedinqueen by Kirkaldy of Grange, was obliged to furrender urgh tato an Eng!ifh army commanded by Sir William Drury. ken by the Kirkaldy was folemnly affured by the Enaiih comman. Einghth der of his life and liberty; but Elicabetí violated t' :e $^{\text {e }}$ capitulation, and commanded him to be delivered up to the regent. A hundred of his relations offered to be-

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An. 1574 .

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come vafilis to Morton, and to pay him $3=00$ merks yearly, if he would fpare his life; but in vain: Kirkaldy and his brother Sir James were hanged at Edinbur: hl. Maitland of Lethington, who was taken at the Fame tine, was poiloned in the prifon houfe of Leith.
The jealoufy of Elizabeth did not diminilh with the decline of Mary's caufe. She now treated her with wore rigour thain ever, and patronized Miorton in a!! the e:normities which he committed ayainit her fricnds. Letly bithop of Rofs had been long imprifoned in England, on account of his concern in the duke of Norfolk's confpiracy. Morton earnefly folicited the queen to deliver him up, and would undoubtedly have put him to death; but as he had acted in the character of ambeffidor from Mary, this was judged impolitic, and the prelate was fuffered to depart fo:- France. When he arrived there, he endeavoured in vain to flir up the emperor, the pope, and the duke of Alva, to exert themfelves in behalf of the queen of Scotland; and, in 157t, the misfortumes of his royat miftefs werc farther aggravated by the death of Charles IX. of France, and her uncle the cardinal of Lorraine. The regent, in the mean time, ruled with the moft defpotic fviay. He twice coined bafe money in the name of his fovereign; and after putting it into circulation the fecond time, he iffued orders for its paffing only for its intrinfic value. The duke of Chatellierault happening to die this year, the regent took every method of ruising all thole of his name and family. He committed to prilon all the Hamiltons, and every perfon of diflinetion who had fought for the queen at the battle of Langfide, and compeiled them to buy their lijerty at an exarbitant price. He inftigated Duuglas of Lochleven to afisiainate Lord Arbroath, and it was with difficulty that the latter efcaped the ambufh tbat was laid for him. Reid, the bifhop of Orkney, having left his eflate to pious and charitable ufes, the regent prohibited the execution of the will, and took on himfeif the adminiftration. To be rich was a fufficient crime to excite his vengeance. He entercd the warehoufes of merchants, and confifated their property; and if he wanted a pretence to jultify his conduct, the judges and lawyers were ready at his call.

In this difaltrous period the clergy augmented the general confufion. Mr Andrew Melvil had lately returned from Geneva; and the difcipline of its affembly being confidered by him as the moft perfect model of ecelefiaftical policy, he was infinitely offended with the introduction of Epifcopacy into Scotland. His learning was confiderable, and his fkill in languages was profound. He was fond of difputation, hot, violent, and pertinacious. The Scottifh clergy were in a humour to attend to him; and his merit was fufficient to excite their admitation. Infigated by his practices, John Drary, one of the rainilers of Edinhurgh, called in queflion, in a general uffembly, the lawfulnefs of the bithops, and the authority of chapters in electing them. Melvil, after commending his zeal and his motion, deslaimed concerning the flourifting ftate of the ellablifhment of Geneva; and having recited the opilitions of Calvin and Beza on ecclefiatical government, maintained, that there floould be no office-bearers in the church whofe titles were not feen in the book of God. He affirmed, that the term bi/bop was nowhere to be found in it in the fenfe in which it was cormonly ur.-
derfood, as Chritt ailowed not any fuperiority among Se t'ane. miniters. He contended that Chrill was the only lord of his church, and that the minitiers of the word were all equal in degree and power. He urged, that the eltate of the bifoops, befides being unlawful, had grown unfeemly with corruptions; and that if they we:e not removed out of the church, it would fall into decay, and endanger the interefts of religion. His feutiments were reccived with approbation; and though the archbifhop of Glafgow, with the billops of Dunkeld, Galloway, Brechin, Dumblain, and the Ifles, were prefent in this affembly, they ventured not to defend their vocation. It was refolved, that the name of bi/bop conferred no diffinction or rank; that the oflice was not mare honourable than that of the other minilters; and that by the word of God their fonctions confifed in preaching, in adminiticring the facraments, and in exercifing ecclefiattical difcipline with the confent of the elders. The Epifcopal citate, in the meantime, was watched with anxious care; and the faults and demerits of cyery kind, which were found in individuals, were charged on the order with rudenels and afperity. In a new afembly this fubject was again canvafted. It was moved, whether bihops, as conttituted in Scotland, had any authority for their functions fre:n the Scriptures? After long debates, it was thought prudent to avoid an cxplicit deteraination of this imporiant queltion. But a confirmation was bellowed on the refolution of the former affembly; and it was eftabilined as a rule, that every bifhop thould make choice of a particular church within his diocefe, and fhould actually difcharge the du:ies of a minifter.

The regent, difurbed with thefe proceedings of the brethren, was difpofed to amufe and to deceive them. He fent a reffenger to advife them not to iniringe and disfigure the eflablifhed forms; and to admoniftr them, that if their averfion to Elifcopacy was intiurmountable, it would become them 10 think of fome mode of ecclefiafical government to which they could adhere with conftancy. The affembly taking advantage of this meltage, made a formal intimation to him, that they would diligently frame a lafting form of polity, and fubmit it to the priv-council. They appointed, accordingly, a committee of the brethren for this purpofe. The bufinefs was too agreeable to be neglected; and in a fhort time Mr David Lindfay, Mr James Lnwon, and Mr Robert Pont, were deputed to wait on the regent with a new Ccheme of ecclefiaftical govermment. After reminding him, that he had been a notable inftrument in purging the realm of Popery, and begging that he would confult with them on any of its articles which tie thought improper or incomplete, they informed him, that they did not account it to be a perfect work to which nothing could be added, or frem which nothing could be taken away; for that they would alter and improre it, as the Almighty God might farther reveal his will unto them. The regent, taking from them their fchedule, replied, that he would appoint certain perfons of the prisy-council to confer with them. A conference was even begun on the fubject of their new eftablifhment; but from his arts, or from the troubles of the times, no advances were made in it.

This year the earl of Bothwel died in Denmak; Death of and in his laft moments, being flung with remorfe, he Bothwel. conffificd

Scot'oni. coniciled that he had been guilty of the hing's murder, revealed the names of the perfons who were his accomplices, and with the moit folemn proteftations declared the honour and innocence of the queen. His confeflion was tranfmitted to Elizabeth by the king of Denmark; but was fuppreiled by her with an anxious folici-

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The regent fiill continued his enormitics, till havirg rendered bimfelf obnoxious to the beft part of the nobility, he was, in 1577 , compelled to refign his office into the hands of James VI. ; but as his majefty was then orly twelve years of age, a general council of twelve peers was appointed to affilt him in the adminifration. Nest year, however, the earl of Morten having found means to gain the favour of the your.g king, procured the diffolution of this council; and thus being left the fole advitier of the hing, he hoped once more to be raifed to his former greatnefs. This could not be done, however, without kreping the king in a kind of captivity, fo th at nubody could have accefs to him but himile!f. The fing, fenfible of his fituation, fent a difpatch to the earls of Argyle and Athole, intreating them to relieve him. An army for this purpofe was foon raifed ; and Morton's partifans were in danger of being defeated, had not the oppofite party dreaded the re:"geance of Elizabeth, who was refolved to fupport the earl of Morton. In confequence of this a negociation was entered into, by iwhich it was agrecd, that the earl of Argyle, with fome others, fhould be admitted into the king's council; and that four nobiemen fliould be cholen by each party to confider of fome proper method of preferving tranquillity in the nation.

This pacification did not greatly diminifh the power of IIIorton. He foon got rid of one of his principal antagonifts, the earl of Athole, by poifoning him at an entertainment; after which he again gave a loofe to his refentments againft the houfe of Hamilton, whom he perfecuted in the moft cruel manner. By thefe means, however, he drew on himfelf a general hatred; and he was fupplanted in the king's favour by the lord d'Aubigney, who came from France in the year ${ }^{15 \%} \%$, and was created e.rl of Lenox. The next year Morton was fufpected of an intention to deliver up the king to Elizabeth, and a guard was appointed to prevent any attempts of this kind. The queen of England endeavoured to fupport her zealous partifan; but without effes. He was tried, condemned, and executed, as
being concerned in the murder of Darnley. It the place of execution, it is faid that he confeffed his guilt; but of this the evidence is not quite fatisfactory. It is however certain that he acknowledged himfelf privy to the plot formed againit the life of the king; and when one of the clergymen attending him before his execution obferved, that by his own confcfion he merited death in foreknowing and concealing the murder, he replied "Ay but, Sir, had I been as innocent as St Siephen, or as guilty as Judas, I mutt have come to the fcaffold. Pray, what ought I to have done in this
matter? You knew not the king's wakneis, sir. If i s. tand had informed him of the plot againit his lite, he would have revealed it even to his enemies and thoie concerned in the defign; and I would, it may be, have loit my own life, for endeavouring to preferve his to no purpole."

The elevation of Ning James, and the total overthrow ver it : : of Morton, produced no beneficial confequences to the ra- yol f unfortunate Mary. In the year 1581, fie addicfled ti, Niary. a letter to Caffelnau the l'rench ambaflador, in which An. $15^{\circ} 1$. the complained that her body was fo weak, and her limbs fo feeble, that fhe was unable to walk. Cartelnau therefore intreated Elizabeth to mitigate a little the rigours of Nary's confinement; which being refufed, the latter had thoughts of refigning her claims to the crown both of England and Scotland into the hands of her fon, and even of advifing him to ufe every effort in his power to eftablifh his claim to the Encrifh crown as preferable to that of Elizabeth. Isut Leing apprehenfive of danger from this violent method, flie again contented herfelf with fending to the court of England ineffectual memorials and remonitrances. Elizabeth, inftead of taking compaffion on her milerable fituation, affiduoufly encouraged every kind of ditorder in the kingdom, on purpofe to have the queen more and more in her power. Thus the Scottith malcon- The king tents finding themfelves always fupported, a conf(piracy tal: 1.riwas at lait entered into, the defign of which nas to uct. hold James in captivity, and to overthrow the anthority of Arran and Lenos, who were now the priticipal perfons in the kingdom. The chief actors in this confpiracy were the earls of Gowrie, Mar, and Giencairn, the lords Lindfay and Boyd, with the mafters if Glammis and Oliphant. By reafon of the youth and imbecillity of the king, they eafily accompliliect theci: purpofe; and having got him in their poreer, thic: promiled him his liberty, provided he would command Lenox to depart out of the kingdom. I his was ac: cordingly done; but the king found himfelf as mach a prifoner as before. The more effectually to detain lim in cuftody, the rebels conftrained him to lilie a prochmation, wherein he declared himfelf to be at perfect liberty. Lenox was preparing to advance to the king's relief with a confiderable body of forces, when he was difconcerted by the king"s peremptory command 213 leave Scouland ; on which he retised to Dumbarton. ita order to nait for a more favourabie opportunity. 'i ..e earl of Arran, being more forward, was cominited to clofe cultody for fome time, but afterwards confined only in his houle of Kinneil. The rebels luok on them the title of " lords for the reformation of the ftate."

The clergy, who had all this time been exceedingly which of avcrfe to Epifcopacy, now gave open courtenance to ar ! , the lords of the reformation. On the I th $^{\text {th }}$ of ( )cto- I' the ter 1582 , they made a lolemn act, by which the raidelens. of Kwitiver, as the capture of the hing was called, was decrned a fervice moit acceptable to all who feared Ciod, ${ }_{5} \mathrm{~B}_{2}$ relpeded
(x) Jebb, vol. ii. p. 227. It has never heen pubiiined. Feith ard wher lifprian, have preferved what they call the carl of Bothwel's declaration at his death, and accoust it to be genuinc. 'Their partiality for Mary in dured them the more eafly to fall into this mifake. The paper they give is demonltratively a forgers ; and the wart of the real confeffion of Bothwel is flill a deficiency in our hiflory.

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Scotland. refpected the true religion, and were anxious for the prefervation of the king and ftate; and every minifter was commanded to declaim from his pulpit on the expediency of this meafure, and to exhort the people to concur with the lords in profecuting the full deliverance of the church, and the perfect reformation of the commonwealth. Not fatisfied with this approbation of the clergy, the confpirators got their proceedings approved by the flates of Scotland, as "a good, a thankful, and a neceflary fervice to the king." At the fame time it was enacted, that no civil or criminal fuit of any kind fhould ever be inftituted againft the perfons concerned in it. Soon after this, Lenox took his leave of Scotland, and failed for France, where

## he died.

The unfortunate Mary was driven to defpair when fhe heard that her fon was taken prifoner by rebels who had been inftigated by Elizabeth. In this dillrefs, fle addreffed a mof fpirited letter to Elizabeth, in which fhe at once afferted her own innocence, and fet forth the conduct of Elizabeth herfelf in fuch language as muft have put the moft impudent of her adverfaries to the blufh. Elizabeth could not reply, and therefore had recourfe to her ufual arts of treacherous negociation. New terms were propofed to Mary, who would gladly have fubmitted almoft to any thing, provided the
could procure her freedom. It was propofed, as had often been done before, to affociate the queen of Scots with her fon in the government; but as this was to be referred to the king, who was in the hands of Elizabeth's friends, and to the parliament, who were under the power of the fame faction, it is eafy to fee that no fuch affociation ever could take place, or indeed was ever intended.

After the death of Lenox, the confpirators apprehended no further danger, little fuppofing that a prince fo young and unexperienced could deliver himfelf from captivity. This, however, in the year 1583 , he effected in the following manner. A convention of the eftates had been fummoned to meet at St Andrew's. James, whom the earl of Arran, notwithfanding his confinement at Kinmeil, had found means to inltruct and advife, pretended a defire of vifiting his grand-uncle the earl of March, who refided at St Andrew's, and was for that purpofe permitted to repair thither a few days before the convention. The better to deceive the earls of Gowrie, Angus, and Mar, who attended him, he took up his lodgings in an old inn, which was quite open and defencelefs. But having expreffed a defire to fee the caftle of St Andrew's, he was admitted into it ; and Colonel Stuart, who commanded the cafle, after admitting a few of his retinue, ordered the gates to be flut. The earls of Argyle, Marifchal, Montrofe, and
confpizators; but they, flattering themfelves with the Scotiand. hopes of fupport from Elizabeth, obftinately refufed to accept of his pardon. In confequence of this, they were denounced rebels. Elizabeth failed not to give them fecretly all the encouragement fhe could, and the clergy uttered the moft fedilious difcourfes againft the king and government; and while they railed againft Popery, they themfelves maintained openly the very characterittic and diftinguifhing mark of Popery, namely , that the clerical was entirely independent of the civil power.

At laft the rebels broke forth into open hoffilities; but by the vigilance of Arran, the earl of Gowrie, who had again begun his treafonable practices, was committed to cuftody ; while the reft, unable to oppofe the king, ted. who appeared againft them with a formidable army, were obliged to Hy into England, where Elizabeth, with her ufual treackery, protected them.

The earl of Gowrie fuffered as a traitor; but the feverity exercifed againft him did not intimidate the clergy. They fill continued their rebellious practices, until the king being informed that they were engaged in a correfpondence with fome of the fugitive lords, citations were given to their leaders to appear before the privycouncil. The clergymen, not daring to appear, fled to England; and on the 20th of May ${ }_{5} 5^{8} 4$, the king fummoned a convention of the eftates, on purpofe to humble the pride of the church in an effectual manner. In this affembly the raid of Ruthven was declared to be rebellion, according to a declaration which had formerly been made by the king. And, as it had grown into a cultom with the promoters of fedition and the enemies of order, to decline the judgement of the king and the council, when called before them to anfwer for rebellious or contumelious fpeeches, uttered from the pulpit or in public places, an ordination was made, afferting that they had complete powers to judge concerning perfons of every degree and function; and declaring, that every act of oppofition to their jurifdiction fhould be accounted treafon. It was enacted, that the authority of parliament, as conftituted by the free votes of the three effates, was fupreme; and that every attempt to diminifh, alter, or infringe, its power, dignity, and jurifdiction, fhould be punimed as treafon. All jurifdictions and judgements, all affemblies and conventions, not approved of by the king and the three eftates, were condemned as unlawful, and prohibited. It was ordained, that the king might appoint commiffioners, with powers to examine into the delinquencies of cletgymen, and, if proper, to deprive them of their benefices. It was commanded, that clergymen fhould not for the future be admitted to the dignity of lords of the feffion, or to the adminiftration of any judicature civil or criminal. An ordination was made, which fubjected to capital punifhment all perfons who fhould inquire into the affairs of ftate with a malicious curiofity, or who fhould utter falfe and flanderous fpeeches in fermons, declamations, or familiar difcourfe, to the reproach and contempt of the king, his parents, and progenitors. It was ordered that a guard, confiting of 40 gentlemen, with a yearly allowance to each of 2001 . Thould continually attend on the king. This parliament, which Attempts was full of zeal for the crown, did not overlook the ${ }^{20}$ furpurcio hiflory of Buchanan, which about this time was excit- hiftory.
ing a very general attention. It commanded, that all

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Scorland. perfons who were poffeffed of copies of his chronicle, and of his treatife on the Scottifh government, fhould furrender them within 40 days, under the penalty of 2001. in order that they might be purged of the offenfive and extraordinary matters they contained. This ftroke of tyranny was furious and ineffectual. Foreign nations, as well as his own countrymen, were filled with the higheit admiration of the genius of Buchanan. It was not permitted that his writings fhould fuffer mutilation ; they were multiplied in every quarter; and the feverity exercifed againft them only ferved the more to excite curiofity, and to diffufe his reputation.
While the parliamentary acts, which ftruck againft the importance of the church, were in agitation, the minifters deputed Mr David Lindfay to folicit the king that no ftatutes fhould pafs which affected the ecclefiaftical eftablifhment, without the confultation of the general affembly. But the earl of Arran having information of this commifion, defeated it, by committing Mr Lindfay to prifon as a fpy for the difcontented nobles. On the publication, however, of thefe acts by the heralds, Mr Robert Pont minifter ot St Cuthbert's, and one of the fenators of the court of feffion, with Mr Walter Balcanqual, protefted formally in the name of the church, that it diffented from them, and that they were confequently invalid. Having made this proteftation, they inftantly fled, and were proclaimed traitors. By letters and pamphlets, which were artfully fpread among the people, their palfions were rouzed againft the king and his council. The minitters of Edinburgh took the refolution of forfaking their flocks, and retiring to England. And in an apolngy circulated by their management, they anxiounly endeavoured to awaken commiferation and pity. They magnified the dangers which threatened them ; and they held out, in vindication of their conduct, the example of the prophets, the apoftles, the martyrs, and of Chrift himfelf, who all concurred, they faid, in oppofing the ordinations of men, when contradictory to the will of heaven, and in declining the rage of the enemies of God. The king appointed his own chaplains and the archbifhop of St Andrew's to perform the minifterial functions in his capital. The clergy over Scotland were commanded to fubfcribe a declaration, which imported the fupremacy of the king over the church, and their fubmiffion to the authority of the bifhops. The national ferments itill increafed in violence. Many minifters refufed to fubferibe this declaration, and were deprived of their livings. It was contended, that to make the king fupreme over the church was no better than to fet up a new pope, and to commit treafon againft Jefus Chrift. It was urged, that to overthrow affemblies and prefyteries, and to give dominion to bithops, was not only to overfct the eftablifhed polity of the church, but to deftroy religion itfelf. For the bifhops were the flaves of the court, were fchifmatical in their opinions, and depraved in their lives. It was affirmed, that herefy, atheifm, and popery, would ftrike a deep root, and grow into ftrength. And the people were taught to believe, that the bifhops would corrupt the nation into a refemblance with themfelves; and that there everywhere prevailed difimulation and blafphemy, perfecution and obfcenity, the profanation of the fcriptures, and the breach of faith, covetoufnefs, perjury, and facrilege. It was reported abroad, that the minifers alone were entrufted with ec-
clefiaftical functions, and with the fword of the word; Seotland. and that it was molt wicked and profane to imagine, that Jefus Chrift had ever committed the keys of the kingdom of heaven to civil magiftrates and their fervants or deputies.

While the clergy were thus impotently venting their wrath, Elizabeth, alarmed beyond meafure at this fudden revolution, and terrified by a confeffion extorted by the rack from one Francis Throgmorton, concerning a combination of the Catholic princes to invade England, began to treat with Mary in a more fincere manner than ufual; but having gained over to her fide the earl of Arran, the only man of activity in Scotland, ftee refolved to proceed to extremities with the queen of Scots. The Catholics, both at home and abroad, were inflamed againft her with a boundlefs and implacable rage. There prevailed many rumours of plots and confpiracics againit her kingdom and her life. Books were publifhed, which detailed her cruelties and injuftice to Mary in the moft indignant language of reproach, and which recommended her affaffination as a moft meritorious act. The earl of Arran had explained to her the practices of the queen of Scots with her fon, and had difcovered the intrigues of the Catholic princes to gain him to their views. While her fenfibilities and fears were leverely excruciating to her, circumitances happened which confirmed invalion of them, and provoked her to give the fullest fcope to the England malignity of her paffions. Crichton, a Scottilh Jefuit, difcovered, paffing into his own country, was taken by Netherland pirates; and fome papers which he had torn in pieces and thrown into the fea being recovered, were tranimitted to England. Sir Willian Wade put them together with dexterity; and they demonitrated beyond a doubt, that the invafion of England was concerted by the Pope, the king of Spain, and the duke of Guife. About this time, too, a remarkable letter was intercept-Renarked from Mary to Sir Francis Englefield. She com-alle letter plained in it that fle could have no reliance on the in- from Mary tegrity of Elizabeth, and that the expected no happy by Elizaiffue to any treaty which might be opened for her re-beth. floration and liberty. She urged the advancement of the "great plot;" fhe intimated, that the prince her fon was favourable to the " defignment," and difpofed to be directed by her advice; fhe intreated, that every delicacy with regard to her own ftate and candition fhould be laid afide without fcruple; and the affured him, that flie would moft willingly fuffer perils and dangers, and even death itfelf, to give relief to the opprelled children of the church. Thefe difcoveries, fo exalperating to the inquietudes and difteffes of Elizabeth, were followed by a deep and general coniternation. The terror of an invafion fpread itfelf with rapidity over England; and the Protellants, while thoy trembled for the life of their champion, were ftill more alarmed with the dangers which threatened their religion.

In this fate of perplexity and diftraction, the counfellors of Elizabeth did not forget that they had been her inftruments in perfecuting the queen of Scots, and of the feverities with which the had treated the Catholics. They were fully fenfible, that her greatnefs and fafcty were intimately connected with their own; and they concurred in indulging her fears, jealoufies, and refentment. It was refolved that Mary thould perih. An Her death aflociation was formed, to which perfons of every con is retolved

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Scolland. dition and degree were invited. The profelled bufinefs of this affociation was the prefervation of the life of Elizabeth, which it was affirmed was in dan'er, from a confpiracy to advance fome pretended title to the crown; and its members vowed and protelled, by the majefly of God, to employ their whole power, their bodies, lives, and goods, in her fervice; to wibliand, as well by force of arms as by other methods of revence, all perions, of whatever nation or rank, who thoult attempt in any form to invade and injure her fafety or her life, and never to defitit from the forcible purfuit of them till they fhould be completely exterminated. They alfo vored and protefted, in the prefence of the eternal Goxl, to profecute to deftruction any pretended fucceffor, by shom, or for whom, the deteflable deed of the affifination of Elizabeth fhould be attempted or committed. The earl of Leicefter was in a particular manner the patron of this affociation; and the whole influence of Elizabeth and hor minifters was exerted to multiply the fubfription to a bond or league which was to prepare the way, and to be a foundation for accomplifling the full deftruction and ruin of the Scotlifl queen.

A combination fo refolute and fo fierce, which pointed at the death of Mary, which threatened her titles to the crown of England, and which might defeat the fucceffion of her fon, could not fail to excite in her bofom the bittereft anxieties and perturbation. Weary of her fud and long captivity, broken down with calamities, dreading afflictions flill more cruel, and willing to take away from Elizabeth every polible pretext of feverity, fic now framed a fcheme of accommodation, to which no reafonable objection could be made. By Naw, her fecretary, fhe prefented it to Elizabeth and her pri-vy-council. She protefled in it, that if her liberty fhould be granted to her, fhe would enter into the clofeft amity with Elizaheth, and pay an obfirvance to her above every other prince of Chriftenlom; that fhe would forget all the injuries with which the bad been loaded, acknowledge. Elizabeth to be the rightful queen of England, abitain from any claim to her crown during her life, renounce the title and arms of England, which the had ufurped by the command of her hulband the king of Frarce, and repreizate tive bull from Rome which had depcefed the Eiglith queen. She likewife protelted, that fhe would enter into the affociation which bad been formed for the fecurity of Elizabeth; and that fhe would conclude with her a defenfive league, provided that it fhould not be prejudicial to the ancient alliance between Sootland and France ; and that nothing flould be done during the life of the Englifin queen, or after her death, 20 invalidate her titles to the crown of England, or thofe of her fon. As a confirmation of thefe articles the profeficd that fhe would confent to flay in England for fome time as an hoflage; and that if the was permitted to retire from the dominions of Elizzboth, flie would furrender proper and acceptable perfons as fureties. She allo protefted, that fhe would make no alterations in Scotland; and that, on the repeal of what had been enacted there to her diggrace, fhe would bury in oblivion all the injuries flic had reseived from her fuljecis; that the would recommend to the hing her fon thofe counfellors who were mof attached to Fig. land, and that the would employ herfelf to reconcile him to the fugitive nobles; that the would take no fleps s:ipecting his marriage without aequsinting the queen
of Eugland; and ihat, to give the greater firnnefs to S. das ch the propofed accominotation, it was her defire that he crur fhould be called as a party: and, in fine, the aifirmed, that the would procure the king of France and the princes of Lorraine to be guarantees for the feriornaance of her engagements. Elizabeth, who was faiful niypernify in hypociify, ditcovered the moft decifive fymptom of a treafatisfaction and joy when thefe overtues were commu- chery of nicated to her. Slie made no adrances, however, to conclude an accommodation with Mary; and her minifters and courtiers exclaimed againft lenient and pacific meafures. It was londly infifted, that the liberty of Mary would be the death of Elizabeth ; that her allociation with her fon would be the ruin both of England and Scotland; and that her elevation to power would extend the empire of Popery, and give a deadly blow to the doctrines of the reformation.

In the mean time, an act of attainder had paffed againft the fugitive nobles, and their eftates and honours were forfeited to the king; who, not fatisficd with this, fent Patrick mafler of Gray, to demand from the queen of England a furrender of their perfons. As this ambaffador had refided for fome time in France, and been intimate with the duke of Guife, he was recommended to Mary: but being a man of no principle, he eafily fuffered bimfelf to be corrupted by Elizabeth; and while he pretended friendhip to the unfortunate queen, he difcovered ail that he knew of her intentions and thofe of her fon. The moit feardalous Falfe refaliehonds were forged againit Mary; and the lefs the pouts raifed was apparemtly abie to execute, the more the was faid aganik the to defign. That an unhappy woman, confined and guarled with the utmoft vigilance, who had not for many years fufficient intereft to procure a decent treatment for herfelf, fhould be able to carry on fuch clole and powerfal negocistions with diferent princes ss were imputed to her, is an abfurdity which it nouf for ever be impoffible to explain. That fhe had an amour with her keeper the can! of Shrewfbury, as was now resortel, might be ; though of this there is no pronf. This, however, cculd fcarcely te treafon againft Elizabeth: yet, on account of this, Mary was committed to the charge of Sir Amias Paulct and Sir Drue Druzy, zealous puritans, and who, it was hoped, would treat her with fuch feverity as might drive ber to dcfpair, and induce her to commit if me rath action. - $\mathrm{S}_{4} / 4$ The earl of Leicefter, faid to be Elizabeth's paremour, Affafing even ventured to fend affaffins, on purpoif, by the mur- ent to der of Mary, at once to deliver his mittrefs from her mer. fears. But the new keepers of the cafte, though re- An. $15 \delta_{5}$ ligious bigots, were men of friat probity, and rejected with foon fuch an infamous tranfaction. In 1585 , Mary began to feel all the rigours of a fevere imprifonment. She had been removed from Sheffield to the caftle of Tutbury; and under her new heepers flie experienced a treatnent which was in the lighelt degrce unjuft, difreffeerful, and acrimonious. Two apatiments or chambers only were allotted to her, and they were fmall and inconvenient, mearly furniflied, and fo full of apertures and chinks, that they could not protea her againt the inclemencies of the neather. 'I he liberty of going abroad for pleafure or exercife was denied to her. She was affailed ty rhcumatifns and other maladies; and her phyficien would not undertake to effect a cure, or even to procure her any eafe, unlefs

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glory of hi- , vefur ! ower, but endanger bis ; u.pects of liceeniton. Mary expollalated with him iy letter on the timidity and colduels of his behaviour, and he returned her an andwer full of diffefpect, in which he intimated his refolution to contider her in no other characier than as quen-mother. Her amazerment, indigsation, and grief, were infinite. She wrote to Ca ftelnau the French amballudor to inform hinu of her inquietudes and anguifh. "My fon (faid mee) is ungrateful; and I defire that the king your mafter may confider him no longer as a fovereign. In your future difpatches, abstain from gising him the title of king. 1 ain his queen and his fovereign; and while I lire, and continue at varimace with him, he can at moft be only an ufurper. From him 1 derive no luftre; and without me lie could only have been Lord Darnley or the earl of Lenox; for I railed his father from being my fubject to be my liulhand. I akk from him nothing that is his; what $I$ elaim is my own; and if le perfits in his courfe of impiety and ingratitude, I wili bettow on him my malcdiction, and deprive him not only of all right to Scotland, bitt of all the ciignity and grandeur to which be might fucceed through mc. My enemies thall not enjoy the advantages they expect from lim. For to the king of Spain I will convey, in the ampleft form my claims, titles, and greatnefs."

Elizabeth having thus found means to fow diffenfion betwcen the quee: of Scots sud her fon, did not fail to make the beft ule of the quariel for her own advantage. The Pope, the duke of Guife, and the king of Spain, had concluded an alliance, called the hoiy league, for the extirpation of the Proteflant religion all Elizabuth was thrown into the greateft elt ganint Eliconfternation on this account ; and the idea of a coun-2abeta. ter affociation among the Proteftant princes of Europe immediately fuggeited itfelf. Sir Edward Wotton uas deputed to Scotland; and fo completely gained on the inbecillivy of James, that he concluded a firm alliance with Elizaleth, without making atly flipulation in favour of his mother. Nay, fo tar was he the dupe of this ambaffador and his miltrefs, that he allowed himfelf flam and to be perfuaded to take into his fasour Mr Archibald betiaviour Douglas, one of the murderers of Lord Darnley; and, of James. as if all this had not been fufficient, he appointed the affaffin to be his ambafador to Eagland.

Mary, thus abandoned by all the world, in the hands of her moit inveterate and crucl cnemy, fell a viclim to her refentment and t:eachery in the year 1587 . A plot Arcount of of affaftination had been formed in the foring of the Babingyear 1585 againt the Englith queen ; purtly with the fon's cortview of refcuing the Scuttilh pincefs; but chictid from foirs y aa riotive to ferre the interelts of the Cathoiic religion, zabetb. This confpiracy, which originated with Catholic prielts an. $133_{7}$. and perfons of no ciitinction, was foon imparted to Mr Babington, a perfon of grest fortune, of in:any accomphifiments, and who had before that tinie difcotered himielf to be the zealous friend of Oueen MIry. That fhe had correfponded with Babington there is no doubt ; but it was fume years previou* to the formation of the plot. A long filence had taken place between them; and Morgan, one of the Linglifi fugitives in Jirance, and a warm friend of Mary's, in the month ni May 1586 , wrote a letter to her, repeatedly and in the moft preffing manner recommending a revival of that correfpondence. In confequence of which, in her anfreer to Morgan.

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Scotland. Morgan, dated the 27 th day of July, fle informed him, that the had made every apology in her power to Babington, for not having written to him for fo long a fpace; that he had generoufly offered himfelf and all his fortune in her caufe; and that, agreeably to Morgan's advice, fhe would do her beft to retain him in her interefts; but fhe throws out no hint of her knowledge of the intended affaffination. On the very fame day fle likewife wrote to Paget, another of her moft confidential friends; but not a word in it with refpect to Babington's fcheme of cutting off the Englifh queen. To Morgan and to Paget fhe certainly would have communicated her mind, more readily and more particularly than to Babington, and have confulted them about the plot, had fhe been acceffory to it. Indeed it feems to have been part of the policy of Mary's friends to keep her a ftranger to all clandeftine and hazardous undertakings in her favour. To be convinced of this, we have only to recolleet, that Morgan, in a letter of the fourth of July, exprefsly, and in the ftrongeft terms, recom* Murdin, mended to have no intelligence at all with Ballard *, who was one of the original contrivers of the plot, and who was the very perfon who communicated it to $\mathrm{Ba}-$ bington. The queen, in confequence of this, thut the door againft all correfpondence, if it thould be offered,
4 Ibid. 534 . with that perfon + . At the fame time, Morgan affigned no particular reafons for that advice; fo cautious was he of giving the queen any information on the fubject : What he faid was generally and fludioufly obfcure : " Ballard (faid he, only) is intent on fome matters of confequence, the iffiue of which is uncertain." He even went farther, and charged Ballard himfelf to abftain by all means from opening his views to the queen of Scots.

The confpiracy which goes under the name of Babington was completely detected by the court in the month of June: The names, proceedings, and refidences, of thofe engaged in it were then known: The blow might have been foon ftruck: The life of Elizabeth was in imminent danger. The confpirators, however, were not apprehended; they were permitted to enjoy complete liberty; treated as if there were not the leaft fufpicion againft them; and in this free and quiet ffate, were they fuffered to continue till the beginning of Augut, for a period of rearly two months. What could be the reafons for fuch a conduct? From what caufes did the council of England fufpend the juft vengeance of the laws, and leave their queen's life fill in jeopardy? Was it on purpofe to procure more confpirators, and involve others in the crime ?
Mary queen of Scots continued fill detached from Babington and his affociates. Their deffruction was a
fmall matter compared with her's. Could the be de- Scotland. coyed into the plot, things would have put on a very different afpect. Babington's confpiracy, which in reality occafioned little dread, as it was early found out, and well guarded againft, would prove one of the moft grateful incidents in Queen Elizabeth's reign. Elizabeth's minifters, too, knew how much they had rendered themfelves juftly obnoxious to the Scottifh princefs: Should the come to mount the throne of England, their downfal was inevitable; from which, it thould feem, is to be explained, why they were even more zealous than their miftrefs to accomplifh her ruin.

Of thefe, Sir Francis Walfingham fecretary of flate Art and appears to have taken on himfelf the chief management treachery in concerting a plan of operations againft the queen of of Eliza. Scots ; and as a model, he feems to have had in his eye her minithat which was purfued on a former occafion by the earl ites. of Murray. His fpies having early got into the confidence of the lower fort of the confiriators, he now employed the very agency of the latter for his purpofes. Learning that a packet from France was intended to be conveyed by them to Queen Mary, and by the hands of one Gilbert Gifford a prieft, whom he had fecretly gained over from their affociation, he wrote a letter to Sir Amias Paulet, who had now the cuftody of the Scottifh queen, requefing that one of his domeftics might be permitted to take a bribe for conveying that packet to the captive princefs. This was on purpofe to communicate to her a letter forged in the name of Babington, in which that confpirator was made to impart to the Scottifh queen his fcheme of affaffination, and to claim rewards to the perpetrators of the deed. Paulet, however, to his honour, refufed to comply with the requeft of Wralfingham; on which Gifford corrupted a brewer in the neighbourhood, who put his letters to Mary in a hole in the caftle-wall. By the fame conveyance it was thought that Mary would anfwer the letters; but it appears that fhe never faw them, and that of courfe no return was made ( y ). It was then contrived that anfwers, in the name of the queen of Scots to Gifford, fhould be found in the hole of the wall. Walfingham, to whom thefe letters were carried, proceeded formally to decipher them by the help of one Thomas Philips, a perfon fkilled in thefe matters; and after exact copies were taken of them, it is faid that they were all artfully fealed and fent off to the perfons to whom they were directed. It appears, however, that only the letters directed to Babington were fent to him; and the anfwers which he made to the quecn's fuppofed letters were carried directly to Walfingham. A foundation for criminating Mary being thus laid, the confpirators were quickly difcovered, as being already known,
(y) Dr Robertfon of Dalmeny, who, in his hiftory of Mary queen of Scots, has thrown much light on thofe dark tranfactions of Elizabeth's nefarious minifters, thinks it not improbable that an anfwer to Babington's letter was written by the Scottifh queen's fecretaries. Although they could not communicate that letter to herfelf, on account of her known abhorrence of affaffination, they perhaps wrote a difpatch in her name, approving of it ; tempted by the profpect of efcaping from imprifonment, and of their miftrefs being feated on the throne of England. This difpatch being conveyed through the fame chink of the wall, was carried by Gifford to Walfingham ; opened ; deciphered, and copied by him ; and then fent to Babington. Camden informs us, that Walfingham artfully forged a pofffcript in the fame cipher to this difpatch; in which Queen Mary was made to requeft of Babington to inform her particularly of the names of his accomplices, and of others who were friends to the caufe.

Scollant. kown, and sifir red the death of trai rs. Tice unlippy princt, eagerly watched by l'a let, and unncqtansed with the late occurrences, 1 s. civad a vifit from
Mary is sir 1 homas Gorges. This envor, as intiucted ox i.hiz weth, lurpticd her when flu bad misunted hor loges to take the pleafure of the chace. His falwalion was abupt find unceremonious; and :.fter informing her of the dilcovery and circumitances of th c c iffiracy r : Balington, he rudely charged her with a concur: in it. Her atonifhment was great, and the delired tu return to lier chamber; but this favour was refufed to her; and after being carried from one houfe 10 aw.oher, in an ans ous and perplexi gg tunc.rt inty, fhe winc athitd to Fother ingay catle in Northamptonthir. N... end Curl, her two lecretaries, the former a Frctichm :-, the latter a native of Scotland, were $t$ ken into cul dy. Paulet, breaking open the doors of her private cilet, polfefted himfelf of her money, which amounted to not more than 7000 crowns. Her cabinets were catefully feald up; and wane fent to London, were exanived in the prefence of Elizabeth. They contained m ny di patches from pefons beyond the fea, cof ic: of letters which had been dictatad by her, and about fo table of ciphers and characters. There were alfo difovered in them many dif, ches to her from Englith no' ${ }^{\text {a men }}$ which were fu!! of ad niration and reject. Thefe Elizabeth concealed; but their zuthors fulpecting that they were known, fought to purchafe her forgivene's by the moft alject protefations of an attachment to her perfon, and by the excrcife of the moft inveterate enmity to the queen of Scots. Naw and Curl declared, that the copies of her letters were in their hand-writing. They bad been dictated by ber in the French language to Naw, tranflited into Englih by Carl, and then put into cipher. They contained not, h wever, any inatters with which f.ee could be repenashed or criminited. It was on the foundation of the letters wl ich Gifion had communicated to Walingham that her guilt was to be inferred; and with copies of thefe, and with an attefted acco nt of the confpiracy of Babin zton and liss affociates, Sir Edsard Wotton wae now difpatched into France to accle her to Henry III. and to explain to him the dangers to which El zabeth was expofed from the machinations and practices of the Ing lith exiles.

The privy col fellors of Eiz..beth deliberated on the moft proper method of yrocealisg aqzinft MI.ry. To frme it appearef, that as The urasonly accefory to the plot, and not the defigner of it, the moft e i le f...erity to Le exercifed agai it her was a clefor a d more rigoross confrement ; and they endeavorred to fortify this opivion, by of fervina, that fhe was fi-kly, and co Id not live long. By others who ware hawn id'y the terrors of Polery, it was rreed, that !le ousht to be fat inflantly to deat by thic formatitis of the law. The carl of Leiceftor recommended it as moft prudent to dirpates her fecret.y by poifn. But this counfel was rejected as mean, dif:r, fot, and violent. The larvers
 of Efwart III. : bywich 'itis, enaned to ts treaton to inngine the A....tion of t.e fovereion, to make war again! hick r! : , or to sd!cty t.r ! semeni s. E 1i.



 Vel. XVIII in : II.



 tiv of her, y ansi jis ged to be confikent sith the ld"\% of Eu, ,ad. It wa therefore re ined to d fign her "M $\mathrm{M}, \mathrm{d}$ ohtr and heir of I mes V . ling of Soo1. $d$, id c mmontly criled quern of crots, an dr sager of Prince."

 juages, bolowity on them in a lxdy, or on the greater . part i them, ablolute power an ! rutherity to it Jote into the matters compafied as $d$ inn in $d$ agin. her by $t h=$ Seottilh prinzefi, and to p is I-nteric acconding to the fi tit and tenor of the a.t whith hed ben taniol. O* thele commithoners a grent majurity proceeded to the cattle of Fch rin ary ; and the $\mathrm{d} y$ after their arrival, they deput d to Mary, Sir TValeer Nill may, Sir Ami: P.int. ard Edv-ard Barker, a pt'lic notary, to deliseir to lav a letter from Elzz' eth. Ir this le ter the Eng lifh quen gratived her unhappy paff. ns, and fter tcproaching Mary with her crimes, informed h. r that commiffiuners were anp inted to take cogniz ace of them. The s ottith prire ff, thouzh alnaifl-d with the proies of beitg brousl to a pullic tis 1 , ws sable to preferve lier Ci ly, as I ndralie them with a compoled manner and air. "It is a maiter (faid fhe) slto- wo tot gether uncomm in and futange, that E'iz beth ihould: "han command me to i: 1 rait to a tral, as if I viere I r ibb-r.b. . jut. I am an independe: 1 for-rein 1 ; and will wot 1 ini h ty any meannefs my 1 igh bintl, the princes my redeceffors, and my $f \mathrm{n}$. Nlifortunes nd mifery have no yet fo invoived me in dejection, as that 1 am to fain: and fonk under this new calal ity and incult. I dolle that you will remember what I formerly protclled to Bromley, who is now lord chancellor, and to the brd La War. To \{peak to nee of commifloners is a win mockery of my rank. Kis is als:c can be $n y$ peers. The laws of Englard are unk $20 \times 1 n$ to me ; and I have to counfell rs to whole widun I can apply for infturetion. My papess and commentaries have leen taken from me: and no perion con hsve the ccurage to apptor as my advoc te. I h.ve indeed recommended myfelf and mev co dition to forcien prirces; bit I am clar of the guilt of hasing conifired the deftrection of Elizaleth, or of having incied any perfon wh. tever to deftryy her. It is only fy mo own wirds and witings that an imputation of ${ }^{\prime}$ ' is hind cis be fopported; and $I \mathrm{2m}$ colinus E yond the poffinility of a doabt, that thefe il tices c ton lie employed simf t.e." The d.y
 tion of the , mi.Tis ners, P. iet and P. rhere returne I
 i. o wriliin, and d fired to know if the in a.ld alvide liy i S'e learsi : read difinetly, a knowle sed it to le
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 ment I have fuftred is a violation of all law."

This affieted tut undzunted priscefs, after having thus formed the competeacy and repelled the pretexts of the commifforicrs, was induced at last, by arguments under the infidious mafk of candour and friendfhip, to depart from the proper and 3 isnified ground whicls he had taken, and confent to that mode of trial which had been propofed. It was reprefented to her by Hatton the vice-cl:an'ertain, that by rejecting a trial, fhe injured her orm reputation and intereits, and deprived herfelf of the only oppostunity of lesting her innocence in a clear light to the prefent and to future times. Impofed on by this artifice, the confented to make her appearance before the judges; at the fame time, however, fhe ftill protefted agaimit the jurifdiction of the court,

855 The accufation is preferred egainft het and the validity of all their proceedings.

After various formalities, the lord-chancellor opened the cafe ; and was followed by Sergeant Gawdry, who proceeded to explain the above ftatute, and endearoured to demonftrate that the had offended againft it. He then eatered into a detail of Babington's confpiracy ; and concluded with affirming, "That Mary knew it, had approved of it, had promifed her affitance, and had pointed out the means to effect it." Proofs of this charge were exhibited againft her, and difplayed with great art. The letters were read which Sir Francis Walingham had forged, in concert with Gifford, \&c. and her fecretaries Naw and Curl. The three fpies had afforded all the necellary inteligigence refpecting the confipiracy, on which to frame a correfpondence between Mary and Babington, and on which difpatches might be fabricated in her name to her foreign friends; and the ciphers were furnifhed by her two fecretaries. But befides thefe pretended letters, another fpecies of evidence was held out againt her. Babington, proud of the difpatch fent to him in her name by Walfingham and Gifford, returned an a fwer to it; and a reply from her by the fame agency was tranfmitted to him. Deluded, and in toils, he communicated thefe marks of her attention to Savage and B.1lard, the moft confidential of his affociates. His confeffion and theirs thus became of importance. Nor were her letters and the confeffions of thefe confpirators deemed futficient vouchers of her guilt. Her two fecretaries, therefore, who had lately forfaken her, were engaged to fubfribe a declaration, that the difpatches in her name were written by them at her command, and according to her initructions. Thefe branches of evidence, put together with ikill, and heightened with all the impofing colours of eloquence, were preffed on Mirry. Though the bad been long accufomed to the perfidious inhumanity of her enemies, her amazement was infinite. She loot not, however, her courage; and her defence was alihe expreffive of her penetration and magnanimity.
"The accufation preferred to my prejudice is a moft deteftable calumny. I was not engaged with Babington in his confuizacy; and I am altogether innocent of having plotted the death of Elizabeth. The copies of Babington's letters which have beein produced, may indeed be taken from origitals which are genuine; but it is impoffible to prove that I ever received them. Nor did he receive from me the dijpatches addreffed to lim in my name. His confeffion, and thofe of his affociates, which have been urged to eftablifh the authority of my
letters to him, are imperfect and vain. If thele confpi- Sootand. rators could have teftified any circumflances to my hurt, they would not fo foon have been deprived of their lives. Tortures, or the fcar of the rack, extorted improper confeffions from them; and then they were execuled. Their mouths were opened to utter talfe criminations; and were immediately fhut for ever, that the truth inight be buried in their graves. It was no dificult matter to obtain ciphers which I had employed; and my adyeflaries are known to be fuperior to fcruples. I am informed that Sir Francis Walfingham has been earneft to recommend himfelf to his fovereign by practices both zgainft my life and that of my fon; and the fabrication of papers, by which to effectuate my ruin, is a bufinefs not unworthy of his ambition. An evidence, the moft clear and inconteffable, is necefiary to overthrow my integrity ; but proofs, the moft ferble and fufpicious, are held out againift me. Let one letter be exhibited, written in my hand, or that bears my fuperfcription, and I will inllantly acknowledge that the charge againft me is fufficiently fupported. The declaration of my fecreturics is the effeet of rewards or of terror. They are tirangers ; and to overcome their virtue was an eafy achievencent to a queen whofe power is abfolute, whofe riches are immenfe, and whofe minitters are profound and daring in intrigues and treachery. I have often had occafion to fufpect the integrity of Naw; and Curl, whole capacity is more limited, was always moft obfequious to him. They may bave written many letters in my name without my knowledge or participation; and it is not fit that I fhould bear the blame of their inconf:derate boldnefs. They may have put many things into difpatches which are prejudicial to Elizabeth; and they may even have fubferibed their declaration to my prejudice, under the prepoffeffion that the guilt which would utterly overwhelm them might be pardoned in me. I have never diftated any letter to thern which can be made to correfpond with their teftimony. And what, let me afk, would become of the grandeur, the virtue, and the fafety of princes, if they depended upon the writings and declarations of fecretaries? Nor let it be forgotten, that by acting in hoffility to the duty and allegiance which they folemnly fivore to obferve to me, they have utierly incapacitated themfelves from obtaining any credit. The violation of their oath of fidelity is an open perjary; and of fuch men the proteftations are nothing. But, if they are yet in life, let them be brought before me. The matters they declare are fo important as to require that they fhould be examined in my prelence. It argues not the fairnefs of the proceedings againft me, that this formality is neglected. I am alio without the affiftance of an advocate ; and, that I might be defencelefs and weak in the greateft degrce, I have been robbed of my papers and commentaries. As to the copies of the difpatches which are faid to have been written by my direction to Nendoza, the lord Paget, Charles Paget, the archbihop of Glafgow, and Sir Francis Inglefield, they are moft unprofitable forgeries. For they tend only to flow that I was employed in encouraging my friends to invade England. Now, if I thould aliow that thefe difpatches were genuine, it could not be inferred from them that I had confpired the death of Elizabeth. I will even coufefs, that I have yielded to the ftrong impulfes of nature; and that, like a human creature, encompafied with

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Scotland. with dangers, and infulted with wroags, I have exerted myfelf to recover my greatneis and my liberty. Tha efforts I have made can excite no bluthes in me; for the voice of mankind mult applaud them. Religion, in her fterne! moments of feverity, cansot leck to them with reproach; and to confider them as crimes, is to defpife the fanctimonious reverence of humanity, and to give way to the fufpicious wretchednefs of defpuitim. I have fought by every art of conceffisi and friendithip to engage my fifter to put a period to my fufferings. Invited by her frailes, I ventured into her hingdom, in the pride and ga:cty of my youth ; and, under her anger and the miferies of captivity, I have grown into age. During a calamitous confinement of 20 years, my youth, my health, my happinefs, are for ever gone. To her tendernefs and generofity I have been indebted as little as to her juitice: and, opprefied and agonizing with unmerited afllictions and hardhips, 1 fcrupled not to befeech the princes my allies to employ their armies to relieve me. Nor will I deny, that I have enfeavoured to promate the advantage and intereft of the perfecuted Catholics of England. My entreaties in their behalf have been even offered with earnefliefs to Queen Elizabeth herfelf. But the attainment of my kingdom, the recovery of my liberty, and the advancement of that religion which I love, could not induce me to flain my felf with the crimes that are objected to me. I would difdain to purchafe a crown by the affaffination of the meaneft of the human race. To accufe me of feheming the death of the queen my fifter, is to brand me with the infamy which I abhor roof. It is my nature to employ the devotions of Eifher, and not the fword of Judith. Elizabeth herfelf will attelf, that I have often admonifhed her not to draw upon her head the refentment of my friends by the enormity of her cruelties to me. My innocence cannot fincerely be doubted; and it is known to the Alnighty God, that I could not poffibly think to forego his mercy, and to ruin my foul, in order to compafs a tran fgreffion fo horrible as that of her murder. But amidit the inclement and unprincipled pretences which my adverfaries are pleafed to invent to overwhelm me with calamities and anguifh, I can trace and difcover with eafe the real caufes of their hoflility and provocation. My crimes are, roy birth, the injuries I have been compelled to endure, and my religion. I am proud of the firft ; I can forgive the fecond ; and the third is a fource to me of fueh comfort and hope, that for its glory I will he cuntented that my blood fhall fow upon the feaffold."

To the defence of Mary, no returns swere made befide unfupported affirmations of the truth of the evidence produced to her prejudice. In the courfe of the trial, however, there occurred forme incidents which deferve to be related. My lord Burleigh, who was willing to difcompofe her, charged her with the fised refolution of conveying her claims and titles to England to the king of Spain. But though, in a difcontented humour with her fon, fle had threatened to difinherit him , and had even correfponded on the fubject with her felect friends, it appears that this project is to be confidered as only a tranfient effect of refentment and paffion. She indeed acknowledged, that the Spaniih king profeffed to have pretenfions to the kingdom of England, and that a book in juflification of them had been communicated to her. She declared, however, that fie
lad incurred the difpleafure of mary by difapproving of Scotiand. this book; and that no conveyance of her titles to the Spanihh king had been ever executed.

The trial continued daring two days; but the commiffioners avoided delivering their opinions. My lord Burleigh, in whofe management Elizabeth chicfly confided, and whom the Scottich queen dilcompofed in no conmon degree by her ability and vigour, being cager to conclude the butinefs, demanded to hnow if the had any thing to add to what hie had urged in her defence. She informed him, that fhe would be infinitely pleafed and gratified, if it noould be permitted to lier to be heard in her jullificatiun before a full meeting of farliament, or before the queen and her privy-council. Tlis intimation was meycis or before it mation was unexpected, and the requet imp.ied in the ques it was rejected. The court, in confequence of previous initructions from Elizabeth, adjourned to a farther cisy, and appointed that the place of its convemtion fhould be the ftar-chamber at Wetlmiafler. l'aeordingly ahterabled there; and Naw and Curl, who had nut been produced at Fotheringay-caftle, were now called before the commifioners. An oath to declare the truth was pat to them; and they definitely aflirmed and protefted that the declaration they fu foribed was in every relpect juft and faithful. Nothing farther remained but to pronounce fentence againit MTrry, '1 he commifioners una- Judgemer.t nimoufly concurred in delivering it as their vepilict or given ajudgement, that flie "was a pariy to the confiracy of $5^{\text {ainft }}$ her. Babington; and that the had eomy affed and imagined matters within the realm of Englund tending to the hurt, deatb, and deitruetion, of the royal perfon of Elizubeth, in oppofition to the flatute fran.ed for lier protection." On the fame day in which this extraordinary fentence was given, the commilioners and the j-dges of England illued a declaration, which imported, that it was not to derogate in any degree from the titles and honour of the king of Scots.

The fentence anzaint Mary was very foon ratiried by The ienthe Engl:h parliament. King James was flruck with rence ratihorror at hearing of the execution of i, mother ; but ficd by the that finititefs prince could flow 1 is ref-ntment no far- Englifh ther than by unavailing embalies and remonitrancos pariament France interpofed in the fame ineffectual manner ; and on the 6th of December 1586, Elizabcth caufed the fenteace of the commifioners againit her to be proclaimed. After this fhe was made acquain.ted with her fate, and received the new's with thie greateft compofure, and cven apparent fatisfaction. Her keepers now refufed to treat her with any reverence or refpect. They entered her apartment with their heads covered, and made no obeifance to her. They took down her canopy of flate, and deprived her of all the badges of royalty. By the [e infulting mortifications they meant to inform her, that the had funk from the dignity of a princefs to the abject flate of a criminal. She fniled, and faid, " In defpite of your fovercign and her fubfervient judges, I will live and die a queen. My royal character is indelible; and I will furrender it wilh may fpirit to Almighty God, from whom I received it, and to whom my honour and my innocence are fully known. In this melancholy fituation Nary addreffed a maguanimous letter to Elizabeth, in which, without making the leaft folicitation for her life, the only requefted that her body might be carried to France ; that the might be publicly executed ; that her fervants might be permitted to de-
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## S C O $\quad\left[\begin{array}{lll}756 & ] & \mathrm{S} \\ \mathrm{C} & \mathrm{O}\end{array}\right.$


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part out of England unmoletited, and cujow the legacies which fhe bequeathed them. But to this ietter no anfwer was given.

In the mean time James, who had neither adjreis nor courage to attempt any thing in behalf of his mother, announced her fituation to his bigotted fuijects, and ordered prayers to be faid for he: in all the churches. The form of the pctition he prefcribed was framed with delicacy and caution, that the clergy might have no objection to it. He enjoined them to pray, " that it might pleafe God to enlighten Mary with the light of his truth, and protect her from the danger which was lhanging over her." His own chaplains, and Mr David Lindfay minitter of Leitin, oblerved his command. But all the other clergy refufed to proffitule their pulpits by preferring any petitions to the Almighty for a Papitt. James, flocked with their lpirit of intolerance and ledition, appointed a new day for prayers to be faid for Flary, and iffised a fricter injunction to the clergy to obey him ; and that he night be free himfelf from any infult, he commanded the archbihop of St Andrew's to preach before him. The ecclefialtics, dilgulted with lis injuntion, perfuaded Mr John Cowper, a probationer in civinity, to occupy the ralpit defigued for the archoilhop. When the king entered he church, he terified hi -irprife; but told Cowper, that if he would obey tis i.janstion, he misht proceed to officiate. Cowper seplied, "that he wsuld do as the fipirit of God would direct him." The king commanded him to retire, anll the coptain of his guard advanced to compc' him to obediz' e. The enraged probationer excl.imed, that thi vicicace " vould witeers againft the hii. $g$ in the sreat day of the Lord;" and denounced a cu:le againt the fpectoins for not exerting themelves in his defenze. The arcibionop now afcending the palpit, perfurmal with pro, riety the function to which he Wha been cllel, and to it. opi rtusity of recommending moder. in a 1 chenty to the asdience. In the tremoon Corect wa, ditd before the privy-coun-

 Acir zeal. A a I -ible it for tin audacious petuTace, he so curnits to the calle of Blacknefs; and his at-tah , hatant dir inf ailled themeive by an



Elizalan, for the in in tise, with the torme: and
 fie courted the lat en of whilude, a d relild to be confoled or tw $f_{p} \vec{k}$. In $\quad$ id. ferfues licr fiphs were fiequent, ald wie br lecsint into lo-d and wild exclamations exprefive of the date of her mind. Her fubjeecs mated the det mimis 7 of he: vill unce a dif-
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Stuart.
don to ahes. An actual confpiracy was even malicioully Sce'and. charged upon L'Aubetpine the French refident; and lie was forced to withdraw from England in difgrace. From, e panic terrors which the minilers of Elizabeth were fo ftudious to exciu, iney icrupled not loudly and inl iably to infer, that the peace and tratiquiti y of the king om cow d oe re-ettablithed ony by the ipeedy execution of the Scottifh quien.

Wile the nation was thus artfully prepared for the but kg - detr raction of Mary, Elizabeth ordered Secre ary Da- the us vi loa to bring to her the warrant for her death. Ha- rant ty ving perufed it with deliberation, fhe obferved that it death was extended in proper terms, and gave it the authority of her fubfeription. She was in a humour fomewhat gay, and demanded of him if he was not forry for what The had done. He replied, that it was afflicting to him to think of the ftate of public aff virs; but that he greatly preferred her life to that of the Scottifl princels. She enjoined him to be fecret, and defired, that before be fhould deliver the warrant to the chancellor, he thould carry it to Walfingham. "I far much (faid fhe, in a merry tone), that the grief of it will kill him."

This levity was momentary; and fears and anxietics fucceeded it. Though the earneitly delined the death of Mary, the was yel terrified to encourter its in: my. Sie was fulicitous to accomplifh this bafe tranaction by fome method which would conceal her confent to it. After intimating to Mr Davidion an anxious wifh that Winies in its blame flould be removed from her, the counfelled . .e etet lin to join with Walingham in addreffitg a letter to marcered, Sir Amias Paulet and Sir Drue Drury, recommending it to thens to manifett their love to her by thedding privatcly the blood of her adverfary: The unlawfulnefs of this deed affected Davidfon, and he objected to it. She repeated refolutely her injunctions, and he departed to execute them. A leter under his name and that of Walingham was deipa ched to Mary's keepe 's, commonicating to them her purpofe. Corrupted by her p-flions, and loit to the fenfibilities of virtue, Elizabeth had now reached the lail extremity of human wickedne s. 1 hough a fovercign princots, and entruited with the cares of a grat nation, fhe blufhed not to give it in cl arge to lor mi iless to enjoin a murder ; and this n-rder was comiceded with every circumitance that cull mahe it moft fithtful and horrid. The victim for it live Ll-ad lie thirlled was a woman, a qucen, a relation, w o was fplendid with beauty, eminent in abilitie:, m . H ? im. us under misfortunes, and fmiling with innucence. Sir Amias Paulet and Sir Drue Drury, , him iet tho: ho the flaves of religious prejudices, felt an eleva-hersectic. ti i mind wh ich ref. cted the greateft difgrace on the fur foveri ${ }^{2}$. 1 . hey conlidered themfelves as grofly iniulted by the purpole propofed to them; and in the reurn thicy male to Walfing am, they affured him, that the queen tuifut c ninald their lises and their propert ; bttat : cy , hof ser conient to part with their honour, and if in themelses and their ofterity with the guilt of in affaftia in. When Davidfen c rriced their a...h difi ad to her, fhe trelic it into anger. Their fe:cpilous dricacy, flef in, whs a dainty infri gente' $t$ of their oan of alre stive ; and th y were ife, ples.a, : d p jardtt liors, vau could give the thento in taci, end litse rothing. Sisc told hin, thit ise


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 mended o: Wingtield to his notice, ver maid nut hefitate to thrike the bow. The atlo ded wore aty cxe aimed wth wamth againt a mode it i. icodis.? 0 dang-rus and unwarrantable. He protefled, thit if the thould take usun he f. If the blame of this deed, it wonld pollute lier with the blacket dilhonour; a .d that, if the fin ull diavow it, the would overthrow for cver the reputation, the extates, and the children, of the perfons who thould affil in it. She heard him with teal. paim, and withdrew fr $=1 \mathrm{im}$ wih pre $\dot{e}$ piais.The marmat, aftor leaving been comm: icated to Wallingham, wa carried to the chancellor, who put the great feal to it. I' is formaliy was hardly coac aded, whon a meflase fro- Kliz b.ih roh"kii d D.v'd- fon from waiting $u$ en the chan-c lor ill he llu uld receive farther inftue : Wins. Witl in an hour a" er, he received a fee nd m.flare to the fame purpofe. He haflened to court; and Elizabeth afked eagerly, if he lad feen the chancel ur. He anfivered in tle atirmative; and the exclaimed with bittemefs againt his halle. He faid, that he had : Fed exactly as fhe had dirceted him. She continue $\pm$ to exprefs warmly $h=d: j!$ bare; but gave no commats to tlop the operatisa of $t^{\prime}$ a errant. In a trate of nicafinefs a id appretiention, he c munnicated her belavidur to the chancellor and the privycounil. 11: \&e urtiers, however, who were will iequsinted wila the arts of their miltrefs, and who knew how to thater her, paid no attestion to him. They perceived, or were fecretly informed, that the defircd to have a pretence upon which to com 1 in of the fe-retary, and to deny that he had obeveat li $r$ inftractions. They obfeived to him, th $t$ by iubicri in , w.e warront, flie had performed whatever the law re sired of her; and that it ras a t proper to delay the execution any longer. While they we anxious to plate En zo eth, they were crafcious of their own cre e y to Mary, and dil not im.nine they and.d be in pe eit fecurity while the lived. They dipatched the warrant torthe earls of Shrewfury and Kent, with Giftr ctions to them to furfil its purp e.

When the two earis and their retinue reached Fotherin ay caftie, they fund that MI ry was fial, and repufing on her bed. They insited, noluithrandiar, to be introduced to 1 cr . Being is umed by her fer-
 preflirg, fhe prepared to receive them. They were condueled int her pr frice by Sir Amis Pajl ton siz
 that Elizal es I I een inted to leac: h. ard that fle was to fuffer the tievt morning at ei lhe cik ... Then Deair, one of the clerks of wat suancil, who acc. m pried them, read over the $w$. $n$, , hic! the 'errd with pi us cawpof re and i thiken fortims. 1. ev then affegted to jullify theis mi $\therefore 1 \mathrm{y}$ en exing in o details concorning the corvira y of $\mathrm{B} \mathrm{a}^{1}$ igton. She ut hr ba d on the Ecri, ics, iahly on a tathe near her, -1 Foror ir ise $n$ t $t$ errai m nime, thit the never deviled, con n'e!l!, or-i lued e ece ib



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wow, ha de lo axed a ainit popery, counidic. Iter to re-n=-1ce its c tose a d recummended to her attention Dr

Sert:onIletcher doan of Peterhorough. She heard hirm with fime ispatience ; and difcovered no anxiety to be converted by this ecclefiaftic, whom he repreliented as a m ft lean d divine. Rifi g into paffion, he exclaimed, th tt " her life world be the death of their religion, and that her death would be its life." After informing him th the vis umalterably fixed in her religious fentiments, the deired that hor confeffor might have the liberty to repair to her. The two earls concurred in obferving, that their conlciences did not allow them to grant this requat. Sise intimated to them the favours for which for had :pplied by her letter to E raive h, and expreffed a with to know it her fifter had attended to them. In.y anfwered, that thele were points on which they had reccived no inftructions. She made inquiries concerning her fecretaries Niw and Curl ; and afked, whether it had ever been heard of, in the wickedelt times of the molt unprincipled nation, that the Cervants of a fovereign $p$ incels had been fuborned for the purpofe of deltroying her. They looked to one another, and were filent. Bourgoin her phyfician, who with her other dometiis was prefent at this interviow, feeing the two earls ready to depart b ight them with an exphatic earneftnels to reflect on the thort and inaderg ate portion of time that they had aliotted to his miftrels to prepare herfelf for death. He infifted, thit a refpect for her high rank, and the mulliplicity and importance of her concerns, req-ire 1 ... le.. it a period of fome days. They preterled, h us ver, no to under tand tine propriety of bis ctition, and re iul $J$ it.

On the dethy' the 'the two earls, her domettics gave 5 ! a fi:l v at to t if ctions; and while the experien- plan ecd a nelathely pat re in their tears, lamentations, as I rivat ef the end vour d to cm ole them. Their grief, fhe fa:d, was alogether umaviling, and could better neither her cumbliona nor their own. Her caufe h d every thing ai- $u$ it that was mo.t honourable; and the miferies from which lhe was to be relieved were the
 tion a.d adat s, fhe 'l. eiore el juined them to be contented id hispy. Ih-t the might have the more leifure to itule her afteirs, the fupped eatly, and, according to: r wial cul? ${ }^{3}$ om, the ate littie. Wiile at table, the rermatied to B ur, oin her ftyhci n, lhat the force oi trut' w: i li.rn: - utable; for that the c.ul of Ken?, rotsi halle in $t=$ aretelce $0^{\circ}$ her havi \& confired An ir Elirtheth, in. 3 plainly i ormed V r, th t her dosth wut id the fee 'y y is their rel' ion. T'hen 1 poer unt wen, the rdend all har fervants to appeir b iore b'r, and tic ed them with the k. d. Is wic't w. .ase men i tio in leer li.e. Haviz 'tled thele attentions th: e.i-red her bu ist.. ior with her women: nd, aen Jiva to her unisurm rac ice, empluyed he "f in re". ion du les, nd in readirs in the Live of $t=S$ in'. At her accu omed time th we to fleep. So... - he a ior copyinatase hour o foumd rett, he awaked. S th indriged in iots ir cit tion, and partouk of tie bermat by th e me ins of a confee ted he tt, which a $n$ :ane i ' y i: : fentiment of 1 er cal....i ies had induced her $100 \mathrm{~h} / \mathrm{hm} \mathrm{I} \mathrm{l} . \mathrm{V}$.
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Scotand. fmallnefs of her legacies from her inability to be more generous. Following the arrangement the had previ-

863 Aeccunt of her exeru lion, 7 th Feb. $1 ; 57$. only made, the then dealt out to them her goods, wardrobe, and jewels. To Bourgoin her phyfician the committed the care of her will, with a charge that he would deliver it to her principal executor the duke of Guife. She alfo entrufted him with tokens of lier affection for the king of France, the queen-mother, and her relations of the houfe of Lorraine. Bidding now an adieu to all worldly concerns, fte retired to her oratory, where the was feen fometimes kneeling at the altar, and fometimes flanding motionlefs with her hands joined, and her eves directed to the heavens. In thefe tender and agitated moments, fhe was dwelling on the memory of her fufferings and her virtues, repofing her weakneffes in the bofom of her God, and lifting and folacing her fpirit in the contemplation of his perfections and his mercy. While fie was thus engaged, Thomas Andrews, the high flerifif of the county, announced to lier, that the bour for her execution was arrived. She came forth drefled in a gown of black filk ; her petticoat was bordered with crimfon-velvet; a veil of lawn bowed out with wire, and edged with bone-lace, was faftened to her caul, and hung down to the ground: an Agnus Dei was fufpended from her neck by a pomander chain; her beads were fixed to her girdle; and fhe bore in her hand a crucifix of ivory. Amidat the fcreams and lamentations of ber women the defcended the flairs; and in the porch the was received by the earis of Kent and Slrewfory with their attendants.Here, too, the met Sir Andrers Melvil the mafler of her houfehold, whom her keepers had debarred from her prefence during many days. Throwing himfelf at her feet, and weeping aloud, he deplored his fad deftiny, and the forrowful tidings he was to carry into Scotland.

After flie had fpoken to Melvil, the befought the two earls that her fervants might be treated with civility, that they might enjoy the prefents the had bellowed on them, and that they might receive a fafe conduct to depart out of the dominions of Elizabeth. Thefe flight favours were readily granted to her. She then begged that they might be permitted to attend her to the fcaffold, in order that they might be witneffes of her behaviour at her death. To this requeft the earl of Kent difcovered a flrong reluctance. He faid that they would behave with an intemperate paffion; and that they would practife fuperfitious formalities, and dip their handkerctiefs in lier blood. She replied, that the was fure that none of their actions would be blameable; and that it was but decent that fome of her women fhould be about her. The earl fill hefitating, the was affected with the infolent and fupid indignity of his
Stuart. malice, and exclaimed, "I am coufin to your miftrefs, and defcended from Henry VII. I am a dowager of France, and the anoisted queen of Scotland." The earl of Shrewfoury interpofing, it was agreed that the Bould felect two of her women who might affift her in her laft moments, and a few of her men-fervants, who might bchold her demeanour, and report it.

She entered the hall where flie was to fuffer, and advanced with an air of grace and majely to the fcaffold, which was built at its fartheft extremity. The fpeetators were numerous. Her magnanimous carriaze, her beauty, of which the luftre was yet dazzling, and

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her matchlefs misfortunes, afiected them. Thicy gave Scoliand. way to contending emotiony of awe, admiration, and pity. She afcended the fcaffold with a firm flep and a ferene aifect, and turned her eye to the block, the ave, and the executioners. The fpectators were diffolved in tears. A chair was placed for her, in which fhe feated herfelf. Silence was commanded; and Beale read aloud the warrant for her death. She heard it attentively, yet with a manner from which it might be gathered that her thoughts were employed on a fubject more important. Dr Fletcher dean of Peterborough taking his flation oppofite to her without the rails of the fcaffold, began a difcourle on her life, paft, prefent, and to come. He affected to enumerate her trefpaffes againft Elizabeth, and to defcribe the love and tendernefs which that princefs had fhown to her. He counfelled her to repent of her crimes; and while he inveighed againft her attachment to Popery, he threatened her with everlafting fire if the fhould delay to renounce its errors. His hehaviour was indecent and coarfe in the highert degree; and while he meant to infult her, he influlted ftill more the religion which he profefled, and the fovereign whom he tiattered. Tuice fle interrupted him with great gentlenefs. But he pertinacioufy continued his exhortations. Raifing her voice, fhe commanded him with a refolute tone to withhold his indignities and menaces, and not to trouble her any more about her faith. "I was born (faid fhe) in the Cathelic religion; I have experienced its comforts during my life, in the trying feafons of ficknefs, calamity, and forrow; and I am refolved to die in it." The two earls, aflamed of the favage obitinacy of his deportment, admonihhed him to defift from his fpeeches, and to content himfelf with praying for her converfion. He entered on a long praver; and Mary falling on her knees, and difregarding him altogether, employed herfelf in devotions from the office of the Virgin.

After having performed all her devotions, her women affifted her to difrobe ; and the executioners offering their aid, fhe reprefled their forwardnefs by obferving, that fhe was not accuflomed to be attended by fitch fervants, nor to be undreffed before fo large an affembly. Her upper garments being laid afide, the drew on her arms a pair of filk gloves. Her women and men fervants burft out into loud lamentations. She put her finger to her mouth to admonifh them to be filent, and then bade them a final adieu with a fmile that feemed to confoke, but that plunged them into deeper woe. She kneeled refolutely before the block, and faid, "In thee, O Lord! do I truff, let me never be confounded." She covered her eyes with a linen handkerchief in which the eucharit had been inclofed; and ftretching forth her body with great tranquillity, and fitting her neck for the fatal Atroke, fhe called out, "Into thy hands, O God! I commit my fipirit," The executioner, from defign, from unRzilffulnefs, or from inquietude, ftruck three blows before he feparated her head fiom her body. He held it up mangled with nounds, and ftreaming with blood; and her hair being difcompofed, was difcovered to be already gray with affictions and anxieties. The dean of Feterborough alone cried out, "So let the enemies of Elizabeth perift." The earl of Kent alone, in a low voice, anfwered, "Amen." Ail the other fpectators were mielted into the tendereft fympathy and forrow.

## S C O [ 759 ] is C O

Scotiand. Her women laitened to protect her dead boly from the curiofity of the fpectators; and folaced themfelves with the thoughts of mourning over it u:ld:llurbed when they fit uld retire, and of laying it out in its func. ral garb. But the two earls probibited them from dilclarging thefe melancholy yet plealing othes to their departed miltrefs, and drove them foom the lall with iadignity. lluurguin her phyfician applied to them that he misht 'e p.rmi'ed to take out her heart for the purnofe of peleving it, and of carrying it with hin to France. But they refufed his intreaty with diddain and anger. Her remains were touched by the mule hands of the executioners, who carried them into att a juining apartment; and who, tearing a cloth from an old billiard-table, covered that form, once fo beautiful. The block, the cufhion, the foalfuld, a:d the garments, which were tiained with her blood, were confumed with fire. Her body, after being em'salined and committed to a leaden co:na, was buried with royal fplendour and pomp in the cathedral of Peterboron:h. Flizubeth, who had treaied her like a criminal while the lived, feemed difroid to acknowledge her for a queen
intention of cu!!ing Elizabeth to an account for the Scotiand. murder of his mother; for which, perhaps, his naturaI $\underbrace{\text { Sod }}$ imicuility may be urged as an excufe, tho ghe it is more probable that his own neceflity for money had f:vallowed $u_{i}$ ) every other cualideration. Fy the leagae formerly cosicluded with E. sland, it had been agreed that Elizabeth flopuld pay an annual penion to the king of Scotland. James harl neither cconomy to make his own revenue anfieer his purpofes, nor addrel's to get it increafel. He was therefore always in want; and as Elizabeth had plenty to fpare, her friend $\left(i_{i}\right.$, became a va luable asquilition. 'To this comideration, joined to his view of alcending the Englith throne, mut chietly be afcribed the litile refentment flown by him to the atrocious conduct of Elizabeth.

Eiizabeth was not wanting in the aits of diffumula-Secreta: tion and treachery now more than formerly. Slie pro- Davidfon fecuted and fined Secretary Davidion and Lord Bar- and Lord leigh for the active part they had taken in Mary's Burleigh death. Their purilhment was indeed much leís than they deferved, but they ceriainly did not merit fuch treatment at her hands. Wahiigham, though equaliy guilty, vet efcaped by pretending midifpofition, or perhaps efcafed becaule the quacen had now occation for his fervices. By her command he drew up a long letter addreffed to Lord Thirlfton, King James's primie minitter; in which he thowed the necellity of putting Nary to diath, and the folly of attempting to rever:ge it. He boafted of the fuperior force of England to that of Scotland; thewed James that he would for ever ruin $1 \%$ is pretenfions to the Englilit crown, ty involving the two nations in a war; that he ought not to trutt to foreigna alliances; that the Catholic paty were fo divided among themfelves, that be could receive little or no affiltance from them, even fuppofing him fo ill advifed as to change his own religion for Popery, and that they would not trult his fincerity. Lafly, He attempted to fhow, that James had already difcharged all the duty towards his mother a:rd lis own reputation that could be expected from an afiectionate fon and a wife king; t'at his interceding for her with a concern fo becoming nature, had endeaied him to the kingdom of England; but that it wowld be madnefs to pufl his refentment farther.

This letter had all the effect that could be diffred. James gave an audience to the Englifh ambaffidor; and being afrured that his blood was not tainted by the evecution of his mather for treafon againit Elizabeth, but that he was fill capable of fuccceding to the cronn of England, he confented to make up matters, and to addrefs the murderer of his mother by the title of loving and affectionate fifter.

Tle reign of James, till his acceffion to the crown of England by Elizabeth's death in 1603 , affords little matter of moment. His fcandalous cu:iceffions to Elizabeth, and his contlant applications to her for money, filled up thie meafure of his mcannefs. Ever fince the expuifion of Mrry, the country had in fact been reduced to the conditun of an Englilh province. The fovere:gn had been ried by the queen of England, and executed for tre fon ; a crime, in the very nature of the thung impoffinle, bad not Scotland been in fubjection to En, 'lan'; and to complete all, the contemptuble fucceffor of Mary thought himfelf well off that he was not a traite:.
112. $1=1$
 mult Erpove, for the cale will admit of sout 3 ma... fition-


 revolution in 1688 , went on with ,i-st videnze. Continual clamours were raifed ag diatt Popery, at tho fone time that the rery fundamental pinci les ef Pupety were held, nay urged in the no: . inl lent manner, as the effects of immediate infpiration. Thefe were the tuial independence of the clergy ch eresy enthly ponter, at the fame time that all earthly powes were to be fitject to them. Their fantaflic decree, were fuppofed to be binding in heaven ; and they took care that they th uld be binding on earh, for whoever had oftended to for as to fall under a fentence of excommunication was declared an outlaw.

It is ealy to fee that This circummance muft have contriou ed to diflumb the public travquility ir a gice de. gree. But befides this, the weaknels of Iames's gevernment was fuch, that, under the name of peace, the whole kingdom was involved in the niferies of civil war; the feudal animointies revived, and flaugher ard murder pretailed ail over the country. J-mes, fited orly for pedantry, difputed, argued, modelled, . id re-modelled, the contilution to no purnce. The clerey continued their infolence, and the laity thati vio.ences on one another; at the fame time that the king, fy 1 is unhappy credulity in the operation of demons and witches, declared a moft inhuman and bloody war ac:in? the poor old women, many of whom were burnt for the imaginary crime of converfing with the du-il.

King James had for fome time formed a matrimonial Scheme, and had fixed his eyes on the princefs Anne, daughter of Frederick II. king of Demmark. Queen Elizabeth attempted to embarrafs this marriage as the had done that of his mother, but James oreriooked all obrtacles by an effort of gallantry of which he was deemed incapi.ble. On the 22d of October, 1589 , he failed to Denmark and married the princefs Anne, then in the 16 th year of her age. The charater of this princefs has been generally reprefented in a very unfarourable light, but probably the imputations which have been caft on it, arofe more from prejudice than reality.



 tic nf ania, l. ve men alteady men onel. His fon, An asou. hor..... and be-n reltored to his patermal dignity and eftates, ata in in in confequance prifind gratituce and atuch mant to the king. Put the Pefbutc ian clergy co thed to exprefs their : norention of the raid of Ruture and to declare on crery eccafion that in their opinim tee call of Gowric had cuftered by an unjuft feverce. On of the molt cmain ri: and p pular of th..t, evder if men was preceptor to ine younger Gowrie and his br hers, who, from their frequent converfati ns with lim, muft hive been deeply impreffid with the belief tinet weir father was murdered. The paff n of rever e e $k$ poffefion of their brcafts; and having intited the king from Falkland to the earl of Gowrie's houle al Perth, under the pretence of fhowing him a feceet th Sure of furcign gild, which he might lawfully e-supilie to his own ife, an atiempt was made to keep lim a cioie prifoner, with threats of putting him to irnou death if he hould make any attempt to regain lis liber f .

The reaity of this confpiracy has been queftioned by mar.y writers, for no oiber reafon, as it would appear, but becaule they could not affign a rational motive for Gowrie's eng. ging in fo hazardous an cnterprife; and fome lave even infinuated that the confpiracy was entered into by the king againtt Gowrie in order to get polfeffion of his large eliates. It has been fhown however by Arnot, in lis Criminal Trials, with a force of evidence which leaves no room for doubt, that the confiracy was the carl's, who feems to have intended that the king fhould be cut off by the hand of an affafin; and the fame acute and difcriminating writer has made it appear highly probable, that he entertained hopes, in the then diffracted fate of the nation not ill founded, of being able to mount the throne of his murdered fosereign ( z ).

The particulars of this confpiracy, as far as they can be collected from the trial of the confpirators, and the depoftions of the witnefies, publifhed by Mr Arnot and the earl of Cromarty, are as follows. On the sth of Augult at feven in the moruing, while the king was about
(z) The family of Puthven had long been looked upon a the head of that partw wlich was attached to England and the reformation ; and the accomplithments of the latter Gowrie qualificd him to be the leader of an c. ternerifing fation. The ingorise le derived from ariftocratici- Tuence over his extenfive domaine, and from the 'taenment of a poweribl paty in cl arch and 1 atc, was embellithed with the lultre of a regal defee 1 . Thus ambition, as wel. :n revenge, mi,ht itimuate him to his daring enterprife. Inded, if his attempt vis to be directed againit tise lif of the hing, it could no Inger be fres for him to remain in the condition of a ful ject : ad the it de e t dmal ious i put tion of banndy, with wht the f.matice reproached King James, might afford a plafible pretext for fecladior, the royal offyring. The fanoly of Hantion, next heir to the crown, had ing Ifl itc, mity, an the earl of Aiten, its he.d, had : ic juf ement; and, the ugh there undoubted!. we.e fevera' frmilies intery fed bc' een G wrie and th crorg ' the ftiol lins of foceffion, none of them grob 'y pofichid pover and ponutis to 15 go their ri ?t. Tat if Gow ic and hi brother were really endowcl nith



 tile, and make hin se called, while there were hatar heirs to tie ciom; as has ince happened in the fane cuuntry, on a fimi ar occafion.

## S C O $\quad[761] \quad \mathrm{S} \mathrm{C} 0$

Scollande about to mount his horfe, to hunt in Falkland park, Alexander Ruthren, brother of the carl of Gowric, addrented him in a very familiar manner. After the hunt was over, the king defired the duke of Lenox to accompany him to the earl of Gowrie's at Perth, telling him that Alexander Ruthven had invited him to get fome hidden treafure, but defired the duke to have an eye to himfelf, and to follow him wherever he went with Alexander Ruthven. When they arrived at the earl of Gowrie's, it was obferved that the earl's fervants were armed. After the king had dined, Kuthven carried him to the uppermoft part of the houfe, where he attempted to make him a prifoner, and to bind his hands; but the king refifted and called out treafon from the window. Sir Jobn Ramfay, who carried the king's hawk, firt entered the chamber, where he faw Ruthven fruggling with the king. Ramfay foon difpatched the traitor, and the earl of Gowrie entcring with a fiword in cach hand, and followed by armed men, there enfued a fhort conflict, in which the earl was mortally wounded by Sir John Ramfay.

For this eminent fervice Sir John Ramfey was ennobled; and though Gowrie and his brother fell in the ftruggle, they were attainted by an act of parliament, which decerned their name, memory, and dignity, to be extinguifhed; their arms to be cancelled; their whole effates to be forfeited and annexed to the crown; the name of Ruthven to be abolifhed; and their pofterity and furviving brethren to be incapable of fucceed-

S75 The Weftern iflanders civilized. The moft memorable tranfaction of James's reign, and that moft to his honour, is the civilizing of the Weftern iflanders. For this purpofe, he inftituted a company of gentlemen adventurers, to whom he gave large privileges for reforming them. The method he propofed was to tranfport numbers of them to his low countries in Scotland, and to give their iflands, which were very improveable, in fee to his lowland fubjects who fhould choofe to refide in the illands. The experiment was to be made upon the Lewes, a long range of the Ebudx ; whence the adventurers expelled Murdoch Macleod, the tyrant of the inhabitants. Macleod, however, kept the fea; and intercepting a hhip which carried one of the chief adventurers, he fent him prifoner to Orkney, after putting the crex to the fword. Macleod was foon after betrayed by his own brother, and hanged at St Andrew's. The hiftory of this new undertaking is rather dark; and the fettlers themfelves fcem to have been defective in the arts of civilization. The arrangements they made were confidered by the inhabitants as very oppreffive ; and one Norman, of the Macleod family, attacked and fubdued them fo effectually, that they not only confented to yield the property of the iflands to him, but engaged to obtain the king's pardon for what he had done.

F'rom the confpiracy of the Gowries there are few tranfactions deferving of notice in the reign of James VI. till the death of Queen Elizabeth in 1603 , called him to the Englifh throne. From that period the affairs of An. 1603. Scotland are fo intimately blended with thofe of England, that they cainot properly be coufidered apart. We have accordingly given a detail of the tranfactions of both countrics from the acceffion of James to the throne of England, in the article Pritain: Some circumflances more peculiarly relating to Scotland, will Vol. XVIII. Part II.
be found under the articles EDINBURGif, LEITH, and Scotland. Gi.ascow.
$\underbrace{\text { Scotlande }}$
We thall conclude the liftorical part of this article with a brief review of the ftate of aftairs in Scotland from the introduction of the reformed religion, and a general ftatement of the effects produced, by the acceffion of James, on the flate of his native kingdom.

The period of the reformation may be regarded as Review of the period of crimes. The people were reformed from public atPapacy to Proteftantifm; but there was no reform in fairs frona their morals. It was the fahhon to declaim about re-mation. ligion; but if we may judge from the facts related by the annalifts of thofe revolutionary times, religion had but little influence on the lives and manners of the people. Confpiracy followed confpiracy, and crime fucceeded crime in rapid fucceffon. Hiftory evinces that every great revolution produces the mott unhappy effects on the human character; and it is certain from the annals of the reformation in Scotland, that the turbulent fpirit of the people received an additional incitement from the civil condicts of the fuperior claffes,

We have feen that the reformers were more ftudious to pull down than to build. The whole eftates of the ancient church were appropriated by the nobles before any proper eftablifhment was made for the reformed clergy. Laws for promoting and fecuring the reformation were ratified on every topic, except that of providing for the miniters of the new religion. The church judicatories and the reformed clergy took the place, and affumed the practices, of the Papal eflablifhment and the Popifh functionarics. The minifters cenfured from the pulpits the conduct of the court ; they difputed the authority of the king, and promoted tumults and fedition through the nation, fo that the king and the parliament found it neceffary to enact a variety of laws for enforcing the obedience of the ecclefiaftical to the civil power; and fome of the clergy continuing contumacious, they were expelled the kingdom. From this meafure, however neceflary it might be deemed, the king acquired much popular odium; and it was the prelude to continual difputes between him and the leaders of the reformation. In 1580 , a convention of the clergy affembled at Dundee, and paffed a refolution abolifhing Epifcopacy. This was oppofed by a counter declaration from the king; and in 1597 , the parliament pafied a law, by which it was enacted, that " minifters, provided to prelacy, fhould have a place in the threc eftates."

In order to ercct the affumptions of the newly formed church on the 1 tins of the flate, the clergy had proceeded to fuch lengtlis, that it became neceffary to oppofe barriers to their pictenfions. So early as the year is 84 , the parliament had paffed an ac, declaring, that the honour, authority, and dignity, of the eftates fhall fland and co:tinue in their ancient integrity, fupteme over all things and all perfons; and, to fupport this declaration by an adequate penslty, it was further declared to be treafon to call in queftion, or to diminifl, the power of the three eltates. All other conventions or affemblies that pretended to meet without the King's authority, wete deneanced as illegal. What was thus declared amid the ravings of anar hy refpecting the fuprome power nt the of ic, contituted enly new idlirmations of the anci ent law; but thele wife provifions were followed by a

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## S C O

Scutand. whole code refpesting the conflitaent members, the mode of fitting, and the authority of the three ettates. This code was drawn up in the ifth pariament of Jame V1.

As a new power had arifen rather in the church than in the ftate, difputing the king's legal capacity, the 18dn parliament in its zeal paried anact, acknorledying the royal prerogative and the privilege of the crown over all citates, perfons, and caufes; and this prerogative and privilege the three eltates engaged to maintain with their lives, lands, and goods. Befides this, they provided a ftanding guard for the fafety of the king's perlon.

The judicial poser of the itate had acquired a ufeful improvement by the eftablihment of the college of jutice in the preceding reign; but if the fenators could not act without queltion by individuals, juftice held her fcales in vain. Amid the wildnels and irafcibility of thofe times, fome of the judges had been thus quettioned, and the parliament interpofed in lwhalf of juftice, by declaring, that, whoever fhould challenge a fenator for his opinion, ftould be punifhed with death.

During the early ages of the Scottih mation, clanflip from blood had cxited in every part of North Britain. Throughout the whole Scoto-Sason pcriod there exitted, as we have fecn, from conq̧ueft and from bisth, a ftate of univerfal villenage, which difappeared in the $5^{5 \text { th }}$ century. Amid the anarchy of fublequent times, there arofe various clans, which were divided, according to the policy of thofe times, into clans of the borders and clans of the Ilighlands. From fuch a flate of fociety, and from the want of employment, we may account for the facility with which great bodies of men were then drawn together at the call of every petty chieftain. In fome meafure to counteract this facility of exciting difturbance and rebellion, the parliament of 1587 had paffed an act, by which the chiefs of all the clans were obliged to give fecurity for their peaceable demeanour, and were made anfwerable for the enormitics comanited by their adherents. By the union of
$\therefore \mathrm{Cbal}^{-}$ mers's:Cale. donia, vol. i. ${ }^{875}$ Effects of lames's aceffion on the flate of sece!3nd. the two crowns, however, the clans of the borders were in a great meafure diffolved, and the quiet of that part of the kingdom finally eftablifhed *.

The Scots had fo long confidered their monarchs as next heirs to the Englifh throne, that they had full leifure to reflect on all the confequences of their being advanced to that dignity. But dazzled with the glory of giving a fovereign to their poiverful enemy, relying on the partiality of their native prince, and in full expectation of tharing liberally in the wealth and honours which he would now be able to beftow, they atiended little to the molt obvious confequences of that great event, and rejoiced at his acceffin to the throne of England, as if it had been no lefs beneficial to the kingdom than honourable to the king. They foon had reafon, ho:sever, to adopt very different fentiments, and from that period we may date a total alteration in the political conftitution of Scotland.

The feudal arittocracy which had been fubverted in moft nations of Europe by the policy of their princes, or had been undermined by the progrefs of commerce, ftill fubfilted with full force in Scotland. Many caufes had contributed gradally to angment the power of the Scotifh nobles; and even the Reformation which, in every other country where it prevailed, added to the authority of the monatch, had increafed their
wealh and infuence. A king foffired of a finall re- Scetart. venue with a prerogative extremely limited, and unfupported by a thanding army, could not exercile much authority over fuel potent tuitjects. He was obliged $t 0$ govern by expedients; and the laws derived their force n:ot tiom his poirer to execute thein, but from the voluntary fubmifion of the nobles. But though this produced a fecies of government extremely feeble and irregular, though Scotland, under the name and with all the outward enfigns of a monarchy, was really fubject to an arillocrace, the people were not altogether unhappy, and even in this wild form of a conllitution there were principles, which tended to their fecurity and advantage. The king, checked and overawed by the nobles, durit venture upon no act of arbitrary porrer. The nobles, jealous of the king, whofe claims and pretenfions were many, though his power was fraall, were afzaid of irritating their dependants by unreafomable exactions, and tempered the rigour of ariftoc:ztical tyranny with a mildnefs and equality to which it is naturally a ftranger. As long as the military gerius of the feudal government remained in vigour, the vafials both of the crown and of the barons were gerierally nut only free from opprcfion, but were courted by their fuperius, whefe power and importance were founded on their attachmint and love.

But, by his acceffion to the thronc of Englond, James aequired fuch an immenie acceflion of wealih, of porter, and of fplendour, that the nobles, altonilhed and intimidated, thought it vain to ftruggle for privilcges which they were now unable to defend. Nor was it from fear alone that they fubmitted to the yoke. James, partial to his countrymen, and willing that they flould partake in his good fortune, loaded them with riches and honours; and the hope of his favour concurred with the dread of his power in taming their fierce and independent fuirits. The will of the prince became the lupreme law in Scotland; and the noble tlrove, with emulation, who hiould moft implicitly obey commands which they bad formerly been accuftomed to contemn. Satisfied with having fubjected the nobles to the crow:, the king left them in full poffeffion of their ancient jurifdiction over their own vaffals. The extenfive rights, vefted in a feudal chief, became in their hands dreadful inftruments of oppreffion; and the military ideas, on which thefe rights were founded, being gradually lott or difregarded, nothing remained to correet or to mitigate the rigour with which they were evercifed. The nobles, exhautting their fortunes by the expence of frequent attendance upon the Englifh court, and by attempts to imitate the manners and luxury of their more weal hy neighbours, multiplied exactions upon the peopie, who durit hardly uitter complaints, which thiey knew would never reach the ear of their fovereign, nor move lim to grant any redrefs.

At their accefion to the throne of England, the kings of Scolland, once the moft limited, became, in an ifflant, the mof abfolute princes in Europe, and exerciled a defpotic authority, which their parliaments were unable to controul, or their nobles to refit.

The church felt the effects of the abfolule power which the king acquired by his acceffion ; and its revolutions, too, are worthy of notice. James, during the latter years of his adminifrration in Scotland, bad revived the name and office of bifiops. But thcy poffefled

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§iotland.

no ecclefiaftical juridiction or pre-eminence; their revenues were inconfiderable; and they were fcarcely dittinguilhed by any thing but by their feat in parlianent, and by being the olject of the clergy"s jealouly and the people's hatred. 'The king, delighted with the fplenduur and authority which the Englifh bilhops enjoyed, and eager to effect a union in the ecclefiatical policy which he had in vain attempted in the civil government of the two kingdoms, refolved to bring both churches to an exact conformity with each other. Three Scotfmen were confecrated bifhops at London. From them their brethren were commanded to receive orders. Ceremonies unknown in Scotland were impoied; and, though the clergy, lefs obfequious than the nobles,

- Rotitit
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879
Scotafl 20siquities.

5:,
Ditaidical.
$\dagger$ Catcio-
siia, vol. i.
p. 90.

SSI
Roman. boldly oppofed the innovations, James, long practifed and well fkilled in the atts of managing them, obtained at length their compliance *.
The monuments of antiquity belonging to North Britain may be confidered under three heads, as they belong to the Celtic period, the Roman period, or the Scato-I:\%/b period. Of the firlt of thefe periods very few monuments now remain, and thefe are chiefly of the tumular kind; confifting either of circles of fones, the crideat remains of druidical worhip, or of the remains of the hill forts, which appear to have been employed by the ancient Caledonians as places of defence. Of thefc hill forts there is a remarkable example at Barrowhill in Aberdeenflaire, which is defcribed and figured by Mr Chalmers +; and a fimilar fort appears to have exifted at Barry-hill near Alyth in Perthhirce.
The remains of the Roman period in North Britain appear chiefly in the celebrated wall built in the reign of Antoninus Pius, between the friths of Forth and Clyde ; in the ruins of which many curious inferiptions have been found. Another ftriking object of this epoch was a fmall edifice, vulgarly called Arthur's oven, which fecms to have been regarded by fome antiquaries as a fmall temple, dedicated to the god Terminus; probably after the erection of the wall of Antoninus, for we are not to conceive that thefe walls were the ablolute lines, beyond which the Romans poffeffed no territory; while, on the contrary, in the pacific intervals, the garrifons along the wall may have claimed the forage of the exterior fields; and the flream of Carron, beyond which this chapel food, may bave been confidered as a neceflary fupply of water. The remains of the wall and forts, and other Roman antiquities in Scotland, particularly their camps and flations, many of which are remarkably entire, are ably illuftrated in a publication of General Roy, and in the Caledoria of Mr Chaliners. General Roy, indeed, has tos implicitly followed a common antiquarian error, in afcribing all thefe camps, ftations, \&c. to Agricola; while they may be more juftly affigned to Lollius Urbicus, A. D. 140 , or to the emperor Severus, A. D. 207 , efpecially, indeed, to the latter ; for the emperor's appearance in perfon to conduct two campaigns, probably as far as Invernefs, mult have occafioncd the erection of works more eminent and durable than ufual ; the foldiers being excited by the animating controul of a military monarch. In the reign of Dimitian, Bolanus, as we learn from Statius the poet, erected feveral works in Britain, probably in the north; fo that it is idle to impute thefe remains to any one author: but, to a judicious eve, the claims of Lollins Urbicus and of Screrus feem pre-
ferable. One of the moft northerly Roman camps yet Sout nd. difcovered, is that near the lource of the river I chan, Aberdeenhlire ; periphery about two Englihl miles. A finaller ftation has alfo been obferved at Old Meldrum, a few miles to the louh-eaft.

Four remarkable Roman flations are defcribed and figured by Mr Chalmers; one on the noth bank of the fiver Dee, near Peter-Culter in Aberdeenthire, occupying about eight Scutch acres *; a lecond in Banf: llire * Caledoon the fouthern batk of the Spey, near its mouth $\dagger$; *ita, vol. i. a third on the eattern bank of the river Findhorn, near ${ }^{\text {P. } 125-}$ Forres, which is believed to be the Varis of the Ro. $+I 6$ p. 129 . mans $\ddagger$; and a fourth, now called the Green Caflle, $\ddagger 16$ p. 131. near Clattering Brig in Kincardine-hhire, forming a fort whofe internal area meafures nearly 158 feet, by 262 feet ||.

Roman roads have been traced a confiderable way in the eatt of Scotland, as far as the county of Angus, affording fome evidence of the exittence of the province of Vefpaliana; but the chief remains are within the wall. A hypocauf was alfo difcovered near l'enth, and another near Muffelburgh, fo that there was provably fome Roman ftation near the Scottifh capital; but the name of Alaterva is a ridiculous error, arifing from an infcription by fome foreign cohort to oblcure goddeffes of their oun country, fiyled Matres Alatcrues. The fnaller remains of Roman antiquity found in Scotland, as coins, utenfils, \&c. are numerous.

There remain few monuments of antiquity that can be referred to the earlier part of the Scoto.Irifh period. Thefe confift principally of fone pillars and obelifks of rude workmanhhip, and generally without inicriptions. There are, however, fome remarkable fculptured monuments referable to this period, luch as the upright flones that ftand in a cultivated field near Cargil, and are carved with figures of the moon and ftars; a fcu!ptured pillar near Forres, fuppofed to refer to the expultion of the Danes in the reign of Malcolm II.; a hieroglyphical column which ftands confpicuous on the moor of Rhyne in Aberdeenflhire; fome carved fones in the churchyard of Meigle, and perhaps the charel of St liegulus at St Andrew's.

Among the antiquities of this period we muft not omit to mention the rematkable terrace-hil/s, which are feen in many parts of Scotland (efpecially in Pecblesthire, as in the parifh of Newlands). Thefe hills appear to have ferved the purpofe of amphitheatres, where the people witucffed the exhibition of plays and other public fports.

The monuments of antiquity that have been referred to the Piets, are rather of doubtful authenticity. Thele round towers, compofed of ftones without cement, which ha:e been called licts houfes, and are ftill found in the Orkney illands, and in fome parts of the north of Scotland, are generally confidered as the remains of the nation whefe name they bear, though $\mathrm{Mr}_{\mathrm{r}}$ Chalmers will have them to be the remains of the old Celtic architecture.

Many Dinih monuments have been defcribed by an- $\delta s_{4}$ tiquaries as exilting in North Britain; but the characters of moft of them are not fuficiently dittinct to afcertuin their Danifl origin. One of the moit certain Danifh antiquities is found in the clarellyard of Ruthwell in Dumfries-Ahire. When this moinument was entire, it appears to have been about, 18 feet high, without its

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Scotland. pedeftal, and to have been fculptured on each of its four fides with foliage, birc's, and marine animals, and infcribed with Runic letters. This curious pillar, which feems to be almolt the only Runic remain in Scotland, was formerly held in iuch high veneration by the common people, that a decree of the general affembly of the kirk in 1644 , ordained it to be thrown down as an object of idolatry.

Of the numerous remains of caftles, cathedrals, and monafteries, which occur in almoft every part of Scotland, our limits do not permit us to take particular notice. Many of them have been already defcribed uncier the names of the places where they are found; and fuch of our readers as defire a more particular account of thefe interefting ruins, may confult the Beautics of Scorland, where thicir curiofity will be amply gratiried.

In our tabular view of the counties of Scotland, we have noted the population of each county as it was afcertained in 1801 , from which it appeared, that, in that year, the whole population of Scotland amounted to $1,607,826$. From the beft accounts which we can collect of the population of North Britain, at fome preceding periods, there can be no doubt that the general population of the country is gradually increafing. Thus it appears, that, in the year 1755 , there were in Scotland about $1,265,000$ fouls ; in 1791, 1,526,000; and in 1798 , about $1,526,492$ ( A ). Hence it appears, that, notwithitanding the emigrations which for many years took place to America, efpecially from the Highlands, the general population has rapidly increafed within the
ftood to reprefent the formerly great office of juftice Scotland, general, an office which Itill continues, though it may be confidered rather as a polt of honour and profit. This is the fupreme court in criminal caules, which are determined by the majurity of a jury and not by their unanimity as in England. There is alfo a court of exchequer, confiting of a lord chief baron and four barons, who have the chiet jurifdiction over the public revenue of Scotland; and a high coutt of admiralty, in which there is only one judge, who is the king's licutenant and juftice general, on the high feas, and in all ports and harbours. From this court there is no appeal in maritime cates. The keepers of the great and privy feals, and the lord-regifter or keeper of the records, may alfo be mentioned under this head.

Befides the above national judges, there is in every county, a therilf, who acts as chief magiftrate, and whole juridiction extends to fome criminal caftes, and to all civil matters which are not by fpecial law or cuftom appropriated to other courts.

The recent changes which have been made in the court of feffion, by dividing it into two houfes, are well calculated to favour the dilpatch of bufinefs, and to prevent that notorious delay which had become the difgrace of the Scottifh court of judicature. At prefent the court of feffion confits of two divifions, the firf of which is compofed of eight judges, having the lord-prefident at their head, while in the fecond there are feven judges whofe prefident is the lord juftice clerk (B).

Sir John Sinclair has ftated the proportion of the public revenues furnihed by North Britain to be as fol-vablic $r$ ven lows, in the year 1789 . The produce of the Scotch cuftoms, in the year ending January $5^{\text {th }} 1789$, was 250,8391 . ; from which was deducted for debentures, bounties, falaries, and incidents, 171,633 . The average yearly amount of the money belonging to the exchequer is 72,5001 . The falt duties in the fame year yielded 18,0431. from which was deducted for drawbacks, falaries, \&c. 8,7491 . The duties of excife for that year exceeded 422,0001 . ; the expence of management 83,9821 . The flamp duties amounted to 73,8771 ; the charges of managing and collecting were 8,0321 . The whole revenue of Scotland for 1788 was $1,099,1481$. The expenditure was as follows: expences of the crown 60,3421 . ; expenditure of the public 173,9211.; bounties, drawbacks, \&uc. 127,629 l. ; public expences fettled by the union, and by fublequent acts of parliament, 64,8681.; cafh remitted to the Engliih exchequer $628,08 \mathrm{rl}$; balance remaining for national purpofes 44,3071 . According to the fame authority, at leaft $r^{2}$. of the revenue railed by Great Britain is now drawn from Scotland, whereas, at the time of the union, the proportion furnilhed by North Britain was fuppofed not more than $\frac{\gamma}{3} \sigma$ of the whole *.

To the above flatement of Sir Joln Sinclair mut be fair's Geo-
added the income ariling from the rpofts, which in 180 rgraph , amounted vol. ii.

The government of Scotland fince the union has been blended with that of England. The chief diftinction between the original conftitution of the two countries was, that Scotland had no houfe of commons, the parliament confifting of all defcriptions, affembled in one hall. That enlightened prince James 1. of Scotland, endeavoured to eftablifh a houfe of commons in imitation of that of England, where he was educated; but the people moft firmly and vigoroully defended their aticient cuftoms. The mort fplendid remaining feature of government in Scotland is the general affembly. Next to this may be claffed the high courts of juflice, efpecially that ityled the Seffion, lately confifting of a prefident and fourteen fenators. The Lords of Council and Seffion, as they are ftyled in Scotland, upon their promotion to oflice, affume a title, generally from the name of an eftate, by which they are known and addreifed, as if peers by creation, while they are only conitituted lords by fuperior interefts or talents. This court is the laft refort in civil caufes, and the only appeal is to the Britift houfe of peers. The julticiary court, which is the criminal court of Scotland, confifts of five judges, who are likewife lords of feffion; but with a refident, Ityled the lord juftice clerk, as he is under-
(A) This laft number is taken from the returns publifhed in Sir John Sinclair's account. According to the returns in the population act in 1801, Scotland, at that period, contained 294,553 inhabited houfes, 9537 uninhabited houfes, 364,079 families, 734,581 males, $86+, 487$ females, making a total of $1,599,068$ inhabitants; of whom 365,516 were chiefly employed in agriculture; 293,373 chiefly employed in trade, manufactures, and handicrafts, and 833,914 were not included in thefe two claffes.
(B) For an account of the firft eftablifment of the Collige of Jufice by James V, fee $\mathrm{N}^{0} 473$.

## S C O

Scotland. amounted to $89,81 \% 1$.; and the product of the income tax, which about the fame time yielded 344,0151 . and was paid by 20,537 perfons of various profelfions, whofe incomes were affeffed at $4,512,5 ; 01$. Thus the whole reverue of Scotland at the end of the 18th century, may be eftimated at nearly one million and a half.

The great incieafe of the public revenues of Scotland fince the union, will appear from the following fatement. In the year 1706, the income of the polt-oftice was not more than $1,19+1$.; that arifing from the excife, only 33,5001 .; and that from the cuftoms, only 34.0001 . ; making a total of $68,69 \mathrm{fl}^{\mathrm{l}}$ : whereas in 1801 , the income of the poft amounted, as we have faid, to $89,8 \mathrm{r} 7 \mathrm{l}$. ; that from the excife to $833,000 \mathrm{l}$. ; and that from the cuftoms, to 578,0001 .; making a total of $1,500,817$ l. Thus, the increafe of thefe three fources of revenue above, in lefs than 100 years, amounted to +Cbalmers $^{1} 1,432,123^{1} .+\mathrm{Mr}$ Chalmers eftimates the whole reCaledonia, venue derived from Scotland at the union, at 160,0001. vol.i.p. Ssz. while in 1800 , the fame author flates it at $1,790,0001$. Hence the increafe on the whole Scottifh revenue fince the union, according to this flatement, is $1,630,0001$.

It appears that the hereditary revenue of the crown $\ddagger$ Playfair's in Scotland was fo much diminifhed during the 18 th Geograpby, century by lavifh grants made by the crown, and a nevol. ii. glect in collecting what remained, as to amount in 1788 p. $55_{53}^{5 .}$ to only 8001 . $\ddagger$

Scottilh re prefentation in parlizment.

Scotland is reprefented in the Britifh parliament by 16 peers, chofen by the whole body of the Scottifh peerage, and by 45 commoners, of whom 30 are elected by the counties, and the remaining 15 by as many diftricts of royal boroughs, one by each diftrict. The following table will fhew what royal boroughs belong to each diftrict.
Diftricts.Members.

1. Edinburgh city ..... 1
2. Aberdeen, Aberbrothic, Bervie, Montrofe, and Brechin
3. Ayr, Irving, Inverary, Rothfay, and Campbel- town ..... I4. Anftruther Eafter and Wefter, Crail, Kilrenny,and Pittenweem1
4. Banff, Cullen, Kintore, Elgin and Juverury ..... 1
5. Stirling, Culrofs, Inverkeithing, Dunfermlineand Oueensferry
6. Perth, Dundee, Forfar, St Andrew's, and Cupar Fife1
7. Glafgow, Renfrew, Rutherglen, and Dumbarton ..... I
8. Dumtries, Sanqubar, Annan, Lochmaben, and
Kirkcudbright ..... I
9. Invernefs, Fortrofe, Nairn, and Forres ..... I
II. Kinghorn, Dyfart, Kirkcaldy, and Burntitiand12. Jedburgh, Haddington, Lander, Dunbar, andNort'h Berwick1
1.3. Selkirk, Peebles, Lanark, and Linlitheow ..... 1
10. Stranraer, Wigton, Whitehorn, and New Gal-lowayI
11. Kirk wall, Tain, Dingwall, Wich, and Dornoch. s

The county members are elected by gentlemen pof. feffed of landed property, or fuperiorities of lands valued in the cefs books of the county at focl. Scots yearly rent, according to a valuation firf introduced daring
the adminitration of Cromwell, and afierwards fanction- $\underbrace{\text { Scotland. }}$ ed by parliament.

The law of Scotland differs effentially from that of $\mathbf{8 S}_{9}$ England, as the former is founded in a great meafure on the civil law, while the latter depends chietly on the flatutes or acts of parliament. The law of Scotland alfo conlills partly of fatute law; but as many of its ancient fatutes have never been enforced, the chief rule of practice ariles from the decifions of the court of feifion, which are carefully preferved and publifhed, and afford precedents that are generally deemed unexceptionable. The civil and canon laws may be faid to form the two great pillars of Scottiih judicature, for of common lave there is farcely a trace. The modes of procedure in Scotland are in general free from many of thofe legal fictions which difgrace the laws of fome other countries, though it may be regarded as a fiction, that a debtor who refufes or neglects to pay, fhould be proclaimed a rebel to the king. The procedure in cafes of debt is peculiarly mild in Scotland. No man can be fuddenly arrefted as in England; but he is firit put 10 the horn, as it is termed, after which a certain delay is granted before the caption or arrelt takes place. For a particular account of the Scottifh laws, fee the article Law.

The Prefbyterian church government, which, fince Religion. the revolution in 1688 , has formed the eflablifined religion in Scotland, is founded on an equality of authority among all its paftors or prebyters, and is modelled after the Calviniflic plan adopted at Geneva, and recommended to the Scotch reformers by the celebrated John Knox. This form of church government, therefore, excludes all pre-eminence of rank, as all the minifters are on an equal footing. The want of ceremony in the ordinances of the Scottifh church is unpleafing to the eye of a ilranger who has been brought up in the Catholic or Lutheran perfuafion. He will particularly be led to make a comparifon between the form or rather mode of burial in Scotland and the burial fervice of England, very unfavourable to the former. He will contralt the hurried itep, and indifferent if not noify behaviour of the bearers and attendants, and the unceremonious depofition of the body in the earth, according to the Scotch cuftom, with the flow and meafured pace, the ferious demeanour and melancholy filence, the folemn and impreflive burial-fervice, at an Englifh funeral ; and he cannot but give the preference to the latter, as being alone calculated to produce fentiments of awe and becoming thoughts of death and a fature ftate, both on the actors and fpectators of the folemn fcene.

The moft ceremonious ordinance of the Scotch church is the adminiftration of the lacrament. This takes place twice a-year, and the communicants are generally verynumerous, though in moft parifhes they muft have previoufly been examined by the miniller, and reccived from him a token of their qualification. Before the facrament is adminiftered, a folemn faft is held on the preceding Thurlday, and the communicants attend divine worfhip in the forenoon, on the Saturday preceding and the Monday following the facrament Sunday.

The former aufterity of the Scottifh clergy is confiderably relaxed; but fome marks of the ancient fictnefs of difcipline ftill remain. In particular, the //t /f of repontance, fo commonly ufed in the age of fanati-

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Scotland. cifm, is fill occafionally brought furward, efpecially in the country churches, where a ruftic culprit is fometimes feen doing penance, and recciving public reproof for

The ecclefiafical power is dillributed among the judicatories of the church in the following manner. Scotland is divided into 935 parifhes, each of which has one or more minifters, who difcharge the paftoral office according to their difcretion, and are accountable only to the prefbytery of which they are members. In matters relating to difcipline, the minillers are affifted by eiders, felected from among the mool intelligent and regular of his parihioners; but thefe elders have no right to teach, or to difpenfe the facraments. Their proper office is to watch over the morals of the people, to queftion them as to their knowledge of the church catechifm, and to vifit the fick. In attending to the interefts of the poor, they alfo difcharge the office of deacons, or church-wardens, and are commonly called ruling elders. The ruling elders and the minifter of the parifh form what is called the kirk feffion, which is the loweft affembly of ecclefiatical judicature in Scolland. The kirk-feffion diftributes among the poor the alms which are collected at the church doors every Sunday, and it takes cog. nizance of petty offences againft religion and good motals. Neither the kirk feftion, nor any other ecclefiaftical court, however, can impofe any civil penalty, but muft confine its puniffiments to private or public admonitions, or refufing to the offerder admiffion to the facraments of the church. Next above the kirk feffion is the prefbytery, compofed of an indefnite number of minifters of contiguous parifhes, with one ruling elder, elected halfyearly as the reprefentative of each kirk-feffion; fo that a preflytery is sompofed of an equal number of minifters and elders. The preßyteries take cognizance of all ecclefiaftical matters within their bounds; judge in cafes of appeal from the kirk-feffions, and judge of the qualifications of candidates for admifition to holy orders. Three or more adjacent prefbyteries form a fynod, of which there are 15. The fynod is a court of appeal from the preflytery within its bounds, and has the power of confirming or reverfing the judgements of thofe inferior affemblies, an appeal lying from it to the general affembly: This is the great ecclefiaftical court of Scotland, and is compofed of reprefentatives from prefbyteries, univerfaties, and royal boroughs, in the following proportion. The preflyteries fend 200 minifters, and 89 ruling elders; the royal boroughs 67 elders, and the univerfities five reprefentatives, who may be either miniffers or elders. Thefe reprefentatives are elceted annually, and the affembly itfelf meets once a-year, and holds its fittings for about 10 days, after which it is diffolved by the moderator or the ecclefiaftical prefident, and by the lord commiffioner, who fits in it as the reprefentative of the king. The general affembly judges in appeals from the fynods, and it can alfo enaet laws which are binding on the whole church for one year. A permanent law can be made only in the following manner. It muft be decreed by a majority of the general affembly, and be afterwards remitted to the confideration of
all the prellyteries. If a majority of thefe approve it, S:utland. and if it is alfo approved by the fucceeding general affembly, it becomes a law, and can be repealed only in the furm in which it was enacted (c). The numbers of preßyterics and parihes which compofe each fynod, will appear from the following table:

| Svnuds. | Prefb. | Parifiea |
| :--- | :---: | ---: |
| 1. Lothian and Tweedale | 7 | 107 |
| 2. Merie and Tiviotdale | 6 | 67 |
| 3. Dumfries | 5 | 54 |
| 4. Galloway | 3 | 37 |
| 5. Glafgow and Ayr | 7 | 123 |
| 6. Perth and Stirling | 5 | 79 |
| 7. Fife | 4 | 65 |
| 8. Forfar and Mearns | 6 | 81 |
| 9. Aberdeen | 9 | 103 |
| 10. Murray | 7 | 53 |
| 11. Rofs | 3 | 24 |
| 12. Sutherland and Caithnefs | 3 | 23 |
| 13. Argyle | 5 | 52 |
| 14. Glenelg | 5 | 29 |
| 15. Orkney | 4 | 35 |
|  | 79 | 935 |

The flipends or falaries of the minifters are paid by the proprietors of the lands within their parifhes, called the heritors, and are fixed by the court of Seffion acting as a committee of the Scotifh parliament. They are ufually paid partly in money and partly in kind, and in general the latter is preferred by the minifter.

There are in Scotland numerous diffenters from the Diffenters. eftablifled perfuafion. Of thefe, fome differ in nothing but their ideas of church-government, as thufe which are called the churches of Relief. Thefe compofe a fingle fynod, comprifing fix prefbyteries, viz. Edinburgh, Giafgow, St Ninian's, Dyfart, Petth and Dumfries, and about 73 parifhes. Two of the principal fects of Scotch diffenters, or as they are called, Seceders, are the Burghers and Antiburghers, both independent of the eftablifhed church, and differing from each other principally in this circumttance, that the Burghers admit the legality of the oaths taken by burgeffes in fome of the royal boroughs, while the latter deny the legality of thefe oaths. The Burghers are the more numerous body, and comprife a fingle fynod, comprehending 10 prefbyteries, viz. thofe of Edinburgh, Glafyow, Kilmarnock, Falkirk and Stirling, Dunfermline, Perth, Coldifream, Selkirk, Lanark, and Abcrdeen. The Antiburgher fynods are three in number, viz. the fynod of Edinburgh, comprehending the preflyteries of Edinburgh, Kello, and Dumfries; the fynod of Perth, comprehending the preßbyteries of Perth, Kirkcaldy and Forfar; and the fynod of Glafgow, containing the prefbyteries of Glafgow, Kilmarnock, Stirling, Elgin, and Aberdeen.

Befides thefe difientors, there are in Scotland feven dincefes belonging to the Enifoopalian church, viz. thofe of Edinburgh and Fife, Glafgow, Aberdeen, Moray, Rofs, Dunkeld, and Brechin, and the congregations

[^35] Mary, to regulate the affars of the nation and the church; and the firt affembly was held in that jear.

## $\mathrm{S} C \mathrm{O} \quad[767] \quad \mathrm{S} C \mathrm{C}$

s-otland, of this perfuation are numerous and refpectabie. The Methodilts and Anabaptin's are alio numerous, but the
893 Quakers are fers in number.
Language. It is well known that there prevail in Scotland two languages that are extremely difierent in their nature and origin, the Earfe or Gaelio, fpoken in the Highlands and in the We?tern 10ands, and the Lowland Scotch, fpoken in the remaining parts of the country. Of the Gaelic langunge we have already treated at fome length in the article Philologr, $\mathrm{N}^{2} 205$, et Seq. and fhall here only give a fecimen of that language in the Lord's prayer, contrafing it with the Norfe language as formerly fochen in the Orkneys, and with the ancient form of the Lowland Scotch.

## Lord's Prayer in Gaelic.

A n'Athair ata air Neanh. Gu namhaichear $t$ Tinm. Tigeadh do Fioghachd. Deanthar do Thoil air an Talamh mar a nithear air Neamh. Tabhair dhuinn an diu ar n-Aran latheil. Agus maith dhuinn ar Fiacha amhuil mar mhaitnid d'ar lueld-fia chaibh. Agus na leig am buaireadh finn. Acil faor finno ole. Amen.

## Lord's Prayer in the Orkney Norfe Language.

Favor ir i chimre. Helleur ir $\mathbf{i}$ namthite. Gilla cofdum thite cumma. Yeya thine mota vara gort o yurn linna gort i chimrie. Ga vus da on da dalight brow vora. Firgive vus finna vera fin vee forgive findara mutha vus. Lyve us ye i tuntation. Min delisira vus fro olt ilt. Amen; or, on fa meteth vera.
Lord's Prayer in Oid Sootch.

Uor fader quuhilk beeft i Hevin. Hallowit weird thyne nam. Cum thyne kingrik. Be dune thyne wull as is i hevin fva po yerd. Uor deilie breid gif ns thilk day. And forleit us uor fkaths, as we forleit tham quha ikath us. And leed us na intil temtation. Butan fre us fia cwil. Amen.

By comparing the above fpecimens, it will be evident, that both the Norfe of the Orkneys, and the old Lowland Scotch are effentially different from the Gaelic, but that the two former have fome dillant refemblance to each other, which may lead an etymologift, without any great firetch of fancy, to believe that they originated from the fame fource. It has indeed been very generally believed, and almoft taken for granted, that the language fooken in the Lorrlands of Scotland is merely a corrupt dialect of the Anglo-Saxon, and that it was introduced into Scotland from South Britain at no very early period. The learned author of Caledonia is decidedly of this opinion, and contends that, previous to the eflablifbment of a Saxon monarch on the throne of Scolldnd in the perfon of Edgar, fon of Mal-
colm Canmore, no other lançunge but Graelic was Scotla: ${ }^{\circ}$. fpchen in North Britain, except in Lothian, which may be confidered as then an Linglifh fettlement. He further declares that the oldeft docuinent which he has met with in the Scottilh language, is a contrack with the magiflrates of Edinburgh in 1387 .
'I here can be no doult of the affinity between the Lowland Ecotch and the Anglo-Saxon. The only matter in difpute is, whether the latter was borrowet from the former, or was a dialect of the fame Gothic language introduced into Scotland at an eallier period. One of the mof tirenuous, and perhaps fuccetisiul advocates for the latter opinion is Dr John Jamiefon, who ir-his elaborate work on the Scottin language has ably controverted the argurnents of Mr Chaimere, and pleaded for the independent origin of the Scotifl language. This is believed by D: Jumiefon to have been tpoken by the Picts, and to have been brought by them from Scandinavia ; for he is decidedly of opinisn, in oppofition to Mr Chalmers, that the Pics wice not a remnant of the ancient Caledonians under a new n:me, but an independent Gothic tribe, who at a very carly period ettablithed themelelves in the north of Scotland (D).

There are two principal peculiaities in the scottif Ianguage ; the ufe of the $q u / L$ at the beginning of words, where the Englifh ufe the $w /$, and the change of the Anglo Saxon th into $d$; both which peculiarities are evidently borrowed from the northern Gothic languages.

In their pronunciation of the vowels, the Scotch follow the method of the French, and other nations of the continent, though, as in England, this general cuftom is fubject to many anomaties. Thus the $\pi$, which in man, and moft other words, is pronounced broad, is, in Father, and a few other inflances, pronounced open, Feyther.

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Litetature.
Scottib literature cannot be traced to an early pe-L riod. In the middle ages it confifted, like that of other countries, in little mure than meagre chronicles, compofed by ill-informed and credulous monks. Indeed, according to Mr Pinkerton, the country that produced Buchanan in the 16 th century, could not in the 12 th boaft of a fingle native writer. It firlt began to dawn in the $1^{\text {th }}$ century, when Scotland, filled with a barbarous Scandinavian colony, cannot be cumpared, in refpect of literature, with the fouthern countries of England and Ireland; but with Scandinavia itelf, with Holland and with the north of Germany, with Poland, Pruffia, Ruffia, and Kungary. In all thefe countries literature is comparatively recent, and compared with the:n, Scotland will not be found deficient. It muft not indeed be forgotten, that in the ficred ground of Iona flourihed feseral refpectable Scoto-Irift writers, who were alfo clafiesl among the apotiles of religion in England, fuch as the biographess of Columba, Cum-nius and Aduman, the latter the friend of the English hiHurian
(D) We have in the early part of this a:ticle, perhaps too haftily, adopted Mr Chalmers's opinion, that the Pikts were not an independent race. The arguments which Mr Chalmers has adduced in fupport of this opinion, fo oppolite to that of nolt antiquaries and hiftorians, are ingenious and plaufble; but as they are drawn chiclly from the names of places, rivers, \&c. in Nurth Britain, which are allowed on all hands to be generally Celtic, and are in direct oppofition to the teftimony of Bede, the carlieft Britith hiflorian, $\mathrm{D}:$ Jamiefon will not allow that they have the weight which at firl fight they appear to merit,

## S C O [

Scotland. ftorian Bede, and among the Stratbelyde Gack, may be noticed St Patrick, the apoftle of Ireland.

The earlieft fragment of Scottifh literature is the Cliromicon Pictorum, luppofed to have been written by fome Irith prieft, in the beginning of the inth century. Of the 12 th century there are fome fragments in the regitter of St Andrew's, fome fhort chronicles publihed by Father Innes; the chronicle of Melrofe, and that of Holyrood. Towards the conclufion of the $13^{\text {th }}$ century, appeared fome writers of confiderable eftimation, particularly Michael Scot, a philofopher, mathematician and phyfician, and alfo celebrated as an aftrologer and alchomyft, who publifhed voluminous commentaries on the works of Ariftotle ; Thomas Learmont of Ercildoun, commonly called Thomas the Rhymer, famous for his poetical compofitions, and his $\mathbb{f k i l l}$ in heraldry, who wrote a metrical ronance called Sir Triftrem; and John Scott of Dunfe, or Duns Scotus, a confummate metaphyfician and voluminous writer. In the $14^{\text {th }}$ century lived John of Fordoun, the author of ScotoChronicon, a hiftorical work of confiderable merit, and . Iohn Barbour, archdeacon of Aberdeen, who wrote a poem on the actions of Robert I. which is no mean monument of the induffry and talents of that age. King James I. who flourihed in the beginning of the 15 th century, may be ranked as the next Scottifh writer of eminence. He was a learned and accomplithed prince, and was the author of fome excellent poems. James was followed by Holland and Harry the Rhymer. In the 16 th century we may notice Elphingfton, bifhop of Aberdeen, who compofed the Scoticorum Chronicum, and was difiinguifted both for learning and piety; Dunbar, the chief of the ancient Scottifh poets; Gavin Douglas, bifhop of Dunkeld, who publifhed an excellent poetical tranflation of Virgil's Eneid, and David Iindiay of the Mount. John Knox, the chief inftrument and promoter of the reformation ; John Major and Hector Böethius, two hiftorians of confiderable note, alfo belonged to this century; and the admirable Crichton mult not be forgotten, though the ufual accounts that have been given of his accomplifliments are itrongly tinctured with fahle and romance. At the latter end of the fame period flourifhed the claffical Buchanan, an elegant hiftorian and Latin poet, and lohn Leflic bifhop of Rofs, the author of many efteemed works, who was verfed in theology and philofophy, in the civil and canon law, and was befides an able flatelman.

The learred Archbifhop Spottifrsood publifhed a judicious ecclefiatitical hittory of Scotland ; and the natural hifory of this country was illuftrated by Sir Andrew Balfour and Sir Robert Sibbald, two of its greateft ornaments. The difcovery of logaritl.ms in the beginning of the 1 th century, is the i dilpt.able right of Napier of Merchifton; and fince lif time, mather:atical fcience has been cultivated in Scutland with fincular fuccefs. The works of Keil, Gregory, Maclauriv. Simfon, Stewart, Robifon, \&ec. are univerfally read and admired. During the 18 th century this country nroduced other eminent writers in various departments of Icience. Among the Scots divine and moral philofophers, we may particul rize Blair, Campbell, Hutchefon, Leechman, Miachnight; among the flatefmen and lawyers, Sir George Mackenzie, Tifcount Stair, Sir Thomns Craig, Lord Kames; among the hiftorians, Hume, Robertfon, Henry, Lord Hailes, Fergufon ; among the political
and moral writers, Reid, Lord Monboddo, Beattie ; 9cotlan及, among the phyficians and furgeons, Bell, Black, Cul. $\underbrace{\text { ar }}$ len, Gregory, William and John Hunter, Hutton, Monro, Smellie, Whytt; and among the Scotiif poets, Blair, Burns, Home, Ramfay, Thomfon, Wilkie. The names now mentioned, befides Mansfield and Burnet, may be fufficient to fhow that Scotland has produced able writers in almoft every ufeful branch of ficience. Among the few departments of literature in which Scottilh writers have been lefs fuccefsful, may be mentioned biography, epic poetry, the critical illuftration of the claffics, and comedy *. Indeed the efforts * See Pir of the dramatic mufe have been fingularly damped in keitoris Scotland from the fanatical prejudices of its clergy; but Geography. we truft that thefe illiberal prejudices have now fubfid- vol i. andair? ed, and that the venerable author of Douglas will fand yol. if. on record as the laff example of ecclefialtical cenfure, on account of his devotion to the drama.

Within the laft 20 years, the progrefs of Scottih literature has perlhaps been greater than at any former period. During that interval, bookfellers thops have been eftablifhed, where formerly there was fcarcely a bookftall, and there are norv few towns of any confideration that do not poffefs a printing-prefs. The increafe of newfpapers and periodical publications, efpecially in the capital of Scotland, is alfo very great, there being now publifhed at Edinburgh not fewer than fix monthly and quarterly reviews and magazines, and at leaft eight newfpapers.

The progrefs of the arts in Scotland has of late fcarce- State of ${ }^{8}$ ly fallen fltort of that of the fciences. Skilful workmen the ants. in the mechanic arts, efpecially in thoie of joinery and cabinet-making, are numerous in the large towns; and even mufical inftruments of confiderable price and excellent workmanftip, are conftructed in Edinburgh. The liberal arts of painting and engraving have been carried to great perfection; and both thefe and the art of printing are now exercifed in Edinburgh in a flyle little, if at all, inferior to that of the London artifts. The numerous public and private buildings in Edinburgh and Glafgow, bear ample teftimony to the abilities of Scottifh arclitects, and flow that they are by no means behind their brethren of the fouth in grandeur and beauty of defign, and elegance and folidity of execution.

The mode of education purfued in Scotland is highly Education. laudable ; and is, perhaps, the beft practical fyftem purfued in any country in Europe. The plan which is followed in the cities, is nearly the fame with that in England, either by private teachers, or at large public fchools, of which the high fchool of Edinburgh is the moft eminent, and may be traced back to the 16 th century. The fuperior advantage of the Scottifh education confffts in every country parih poffefing a fchoolmafter as uniformly as a clergyman; at leaft, the rule is general, and the exceptions rare. The fchoolmafter has a finall falary, which enables him to educate the children at a rate eafy and convenient, even to indigent parents. It may, indeed be computed, that a fhilling will go as far in this parochial education, as a guinea in an E.nglifh fchool. In the Highlands, the poor children attend to the flocks in fummer, and the fehool in winter. TJill within thefe feiv years, the falaries of the Scotch parochial fchoolmafter were fo trifling as to hold out no adequate encouragement to young men of abilities to engage in that ufeful office; but they have lately

Sentland. been auginenied, and the eftablifiment of a fund for the widows of fchoolmatters in Scotland, has added to the refpectability of the fituation.

A great majority of the Scottifh youth are educated for the church, and from this clafs the families of the gentry are generally fupplied "ith private tutors, and the fchools and academies with mafters. It has been obferved by Mr Laing, that " the poverty of the church of Scotland is peculiarly unfarourable to the purfuit of letters; her univerfities make no provifion for the independence and eafe of a ftudious life. The wealthy benefices of the Englith church may afford a final retreat, and its well endowed univerfities, an intermediate fanctuary for literary repofe, where a tafte for claffical and polite learning is cultivated and preferved. But the Scottifh clergy, who are removed from the univerfity early in life, to a remote folitude, have neither accefs to the works of the learned, nor the means, if they retain the defire, of improving the acquifitions which they have already made. No one is illiterate, but the church has not yet been diftinguifhed by a man of extenfive or profound erudition. Their education imparts fome fmattering of fcience; their trials of ordination, require an equal proportion of Greck and Hebrew ; and the fame parity is oblervable in the learn-

* Laing's
$\mathrm{H}_{3} / \mathrm{l}$. of Scotland, vol. iii.
p. 479 .

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Univerfities.

There are in Scotland four univerfities, viz. thofe of St Andrews, Aberdeen, Glafgow, and Edinburgh; a particular account of which will be found under thofe articles. The univerfity of Edinburgh, though of moft recent origin, is now in the higheft eftimation; from the numerous departments of fcience and literature there taught, and the general ability of its profeffors. The Scotch univerfities, unlike thofe of England, feldom confift of more than one college, and St Andrews may be confidered as the only proper exception to this obfervation, as the colleges of Aberdeen are in diftinct towns, viz. the one in Old, and the other in New Aberdeen. There are profeflors of medicine at all thefe univerfities, but only Edinburgh and Glafgow can be regarded as medical fchools.

We can here only enter on a few general obfervations refpecting Scottifh agriculture, as the ftate of hufbandry in Scotland may be beft feen from the general defcription given of the feveral counties, and from the article Agriculture. In the lower diftriets particularly, agriculture has arrived at a great degree of perfection. In the counties of Beruick, Eaft Lothian, Ayr, Lanark, Stirling, Perth, Angus, and Mearns, the face of the country has, in confequence of the improved cultivation, affumed a new appearance, being highly cultivated, and generally inclofed with thorn hedges, inflead of the former inclofures of flone dykes. Rich crops of wheat, barley, clover and turnips, are now raifed on fields which fome years ago afforded only fcanty pafturage for fheep; and potato crops are now become general and excellent. Of the mountainous ditriets, black cattle and theep are the flaple commodities, and the rocky flores produce abundance of kelp. In a few jears the deficiency of timber, fo much complained of by fouthern travellers, will be abundantly fispplied, as many proprietors are now covering their wafte lands with extenfive forefls. One nobieman, the earl of Moray, from 1767 to $180 \%$, planted upwards of ${ }^{13}, 000,000$ of trees, of which $1,500,000$ are oak. The

Yol. XVIII. Part II.
value of land in Scotland is within thefe few years pro- Scotlard, digioully increafed, and an Englifhman will fcarcely believe, that in fome parts of Scotland extenfive farms are let at 51. and even 61. per acre *.

* PlayAs the valued renit of land is intimately connected fair's Geog. with the progrefs of agricultural improvement, we p. $547^{\circ}$. fhall here give a table of the rental of the feveral Scotch counties, as it has been valued in Scotch money.


The inhabitants of North Britain can fcarcely be re-Manufacgarded as a commercial people before the end of the rures and eleventh century, when the acceffion of Edgar, by pla-commerce. cing a line of Saxon monarchs on the Scottilh throne, introduced into Scotland that fpirit of trade and commerce, which at an early period diffinguifhed the Saxon inhabitants of South Britain. It has indeed been pretended that the Scotch had a fifhery at home, and a foreign traffick with the Dutch, as early as the beginning of the ninth century; but the former is improbable, fince the religious prejudices of the Gaelic people led them to regard filh as unhallowed food, and filhery as an unlawful occupation; and the latter afiertion is at leaft incorreet, fince the Dutch did uot exifl as a commercial focicty at that early period. The chief feats of trade have, in all ages, and in every country, been the towns; but Celtic Scotlarid had ueither towns nor cities, till the erection of catles and monafferies, fubfequent 5 E
to

## S C O［ 770 ］S C O

Sectiand．to the eleventh century，produecd the formation of vil．chiefiy to corn，and the raw procteets of the country．S．otlant． $\underbrace{-\quad \text { lages under their walls．Thele villages became touns，}}$ from the feulements of the Linglifh，Ando－Nomats， ard Fiemings in them，during the $12 \mathrm{~h}^{\mathrm{h}}$ century；and from that time we may properly date the commence－ ment of Scottifh commerce．

At a pe．iod lithe anterior to llis，the Srotch canied on feveral domethic maunfactures．They mat．ufakiured ther ounflax into linen，and their hides into hather． They alfo wrought the wool of their flocks into cuarfe cloth：and thele woolien fabrics were regulated by a particular afize during the reinn of David I．Necefi－ ty had early insoduced fimiths，tanners，and fhoemakers， into every village，and dyers，goldimiths，and amour－ ess mo cuery town．Sailu torks became an objeit of at ention in the reign of David I．becaule they furnith－ ed a reverue to the kings and robles，and pruft to the mouks．In the fame reiga，woter－mills were fubject to tutbes，and tenants were oblinged to grind at paricu－ lar mills．The Scotih kings lied wills at each of their burghs，and on feveras of their manors；ard from thefe mills they derived a confiderable revenue，and a con－ flant fource of munificent grants to the religious ella－ blifhments．Before the middle of the thirieenth cen－ tury，wind－mills had been miverfally introduced，and there was：a malt－kiln and a brew－hunfe in every vil－ lage．Thefe obiects were confidered as domelfic manu－ factures，arifing from hufbandry，which was at that time the univerfal purfuit among all ranks，from the prince to the peafant．

It is curious to obferve，that Scone was not only the metropolis of Scotland at the beginning of the Scoto－ Saxon period，bat alfo one of the earlieft places of io－ seign commerce．Perth had alio a foreign iraffick in thole early times，and St Andrew＇s partcok of the riches which tlow from diffant trade．Next to the fe，in the advantages refulting from a commercial intercourfe with foreign nations，followed Stirling，Invercfls，Dunferm－ line and Abeideen．

The erection of ccrtain towns into royal burghs， though fourded on the principles of exclufion and noo－ nopoly，tended to advance the general interefts of trade． Each of thefe burghs had particular diflricts through which their privileges extended，and to which they were confined．Towards the conclufion of the Scoto－Saxon period，the Flemings had placed a commercial factory at Berwick，and before the death of Alexander III．a trade had been opened with Gafcony，for the importation of wine and corn．

The firft great traders in Scolland feem to have been the heads of monatleries，as they alone pofieffed at once the firit of commercial enterprife，and a fufficient capital to engage in promifing fieculations．To them kelonged the principal fhips；they had at firt the ex－ clufive privilege of fining，and they were the chief bankers of thole times．

After the numeious conflifts and revolutions which diturbed the peace of Scotland，previous to its union with England，its manufactures were not probably in a much better ftate of improvement at that epoch，than they had been at the death of Alexander III．Thcy had been fometimes encouraged，but they feem never to have advanced beyond the dumeftic fupply．Of counfe the commerce of North Britain could never have been very extenfive，and its exports mult have been confined

Since the union，the induftry and marufacturcs of Scot－ land have been affiduoully cultivated，and the atempls at improvement in the national comane：ce hare，in the tedious refu＇t，proved fucceisful bcyond ex；ectation． The e．tabliliment of the Royal Bank，aid of the focie－ ty for the improvement of agriculture in the reign of George I．and the lubfequent elfabiliment of a board of mutices for improving the matufacturcs，tracie，and filmenies of North Britam，have been the means of ad－ ding sicatly to the riches and profnerity of the coun－ try ${ }^{*}$ ．

Since the union，this country hes ftared in the na－mers＇s cia－ ional led nia， tional prolperity．Towards the middle of latt century，vol a manufactuses began to tiourifl，and trade increafed in due pronotion．Without troubling the seader with a detail os this fukject，it m－y be fulficient to wherve that about 20 years aco，manufactures in many towns were carrided on to a great extert．Cotion cloths alone em：－ plyed in Glafyum，and its neighbourheod， $1_{5,000}$ looms and 135,020 pertons．Queen＇s ware，and the inkle manufacture，nere likewife tmportant branches in that city．In and near Pailley，upwards of 10,000 perfons of all defcriptions，vese employed in the ma－ nufacture of tilk gauze，and 12,000 in working lawne， muflins，and cambrics；befides other trades，which were very productive．Cmmon and fint．plafs to a great amount is prepared in Dumbartun，Leith，and other parts of the country．Diapers are wrought in Dunfermine to the value of 50,0001 or $60, c 001$ ．a year． Checks and ticks are ftaple conmudities in Kirkaldy． Coarfe linen，fail cloth，ofnaburgs，\＆zc．are manufacta－ red in Dundee，Arbroath，Aberdeen，and Forfar．Pi2－ per mills，delft houles，and fugar－he ufes have been exec－ ted in fevera！towns and villages．Extenfive iron works are ellablified in Fife，on the Ciyde，and at Carron； in the laft of which more than $1=00$ worknien are occa－ fonally employed．The whale，herring，and falmon fifheries are inexhaunible fources of weal h．The coal trade is well known，and extremely pioductive．Here it may nut be inproper to flate that the limits of the coal country on the weft cuaft，are Saltcoats and Gir－ van；on the eaft coaft，North Berwick and Fifenefs； Aretching from fouth－weft to north－caft in breadth， about 30 or 40 miles．Beyond thefe limits，no coal ffrata have litherto been found．The exportation of black cattle to England has been highly advantagecus to this country．The coafing trade to the fouth is carried on from Leith and oither eallern ports，while Glafgow is the great emporium with the Weft In－ diesf．

+ Play－
Some interefing details are furnifhed by Mr Chal－fair＇s Geog． mers，refjecting the progrefive improvement of the vol．ii． manufactures and commerce of Scotland，fince the minor；and the principal of thefe we fhall here lay before our readers．

In 1707 ，the furplus linen orer the confumption made in North Britain was eflimated at $1,500,000$ yards．

In 1727 ，it was eftimated to $2,000,000$ yards．
In 1754，it amounted to 8，914，369 yards．
In 1764 ，it ind rifen to $12,823,048$ ．
$\mathrm{J}_{12}$ エクフ2，the furplus value of the linen manufacture amounted to $33,089,006$ ．

In 1782 ，the fame furplus amounted to $15,3,48,744$ ．
In 1792，it amounted to $22,065,386$ ，and thus it was

## S G O <br> S C O

Sntard. gr-dually extended to above $24,000,000$ yande, till the introluction of the cotton manulactories rendered that of linen of lefs importance, and confequently diminithed the quantity made for exportation.

The whole quantity of corn exported from Scotland at the union has been eitimated at 22,937 quarters.

The quantity exported in 1749 was 105,573 quarter. From that period, owing partly to bad fealons and partly to iacreafed confmption, the export of corn from one part of the country has generally been equalled by its import into others.

The inportation of cotton wool into Scotland during the year 1755 amounted to $105,85 \mathrm{t}$ pounds.

The importation of the fame article in : 789 amounted to 2,401,661.

Its importation during 1803 was e?mated at $8,620,996$ pounds.

The value of cargoes exported from North Britain in : 957 : was $670,0001$.

Their value in $175 \nmid$ wes $1,244,0>01$.

Tree fhi ping employed in the foreign trale of North Britain during the year 1763 amounted to 33,352 tons.

In 1782 , it amounted to 50.530 tons.
In 1792 , it hol rifen to 84,027 tons.
And in 1802 , it was not lefs than $9 \downarrow, 276$ tons.
The whole number of thips belonging to Scotland at the union has been entimated at 215 , carrying 14,485 tons.

The whole number of Scottifh hips in 1805 was at leaff 2581 , and their whole tounage was ellimated at 210,295 tons.

It was eltimated, that in 1792 the whole number of men, women, and children, occupied chiefly in the woollen, cotton, and linen manufactories, in the four counties of Lanark, Renfrew, Ayr, a d Danbarton, amounted to at leait 90,000 , who earned daily 6850 . or yearly $2,137,2001$. fterling.

The union with England was not for many ycars productive of thofe advantages which were at frit cxpected from it. A feeble attempt to obtain a flare in the colonial trade was defeated by new regulations, which the commercial jealouly of the Englith merchants procured. The migration of llock and trade to the north was a vilinnary expectation. No new manufactures were attracted to Scotland by the cheapnefs of labour; no improvement was introduced into agriculture ; on the contrary, commerce was ftill languid, a nd the price and rents of eitates inconfiderable. Every nationnl exertion was difcountenanced; and, duing the interval hetween the two rehellions, the country was alternately difregarded, or treated like a conquered province prone to revolt. The nation, notwithlanding the gradual increafe of its linen manufature, apreared to he nearly ftationary, and was certainly far lefs progreflive for half a century than if no union had ever been contraeted.

When the contefts of domeflic fadion had ceafel, the turbulent fanaticifm which diftinguifhed the Sontch during the former century was loft in the purfuits of induftry, of literature, and of the atts of peace. Some
attempts had teen made before the lafi rebellion to intoduce a better cultivation into the Lothians, which kas fince extended througin the wift and the north to the richeft provinces beyond the Tay. The gentry, among o:her effurts to promute manufactures, had begun to bired their fons to mechanical arts, in order to retain them at home. By the abrogation and fale of hereditary jurildictions, the poveriy of the nobles was reliered, and the people were emancipated from their oppreffive coercion. The country was gradually earicl:ed ty the troops retained to prevent inlurrection; and fy m the advanced price and confumption of cattle in the Englihi market, the farmers accumulated th is firt nock for the improvement of the foil.

Bat the beneficial effeets of the union were peculianly referved for the prefent reign. The progrels of induftry and trade was immenfe ; new manuractures, particularly of filk, were introduced with fuccels. 'The Sco's employed in the feven years war returned from abroad with the ineans or fpirit to improve their ellates; and the rapid cultivation of the country has redoubled the produce and the value of the foil. Before the commencement of the American war, the merchants of Glaigow had engrolfed the chief trade in tobacco for exportation. The interruption of trade during that difafrous war dizecte.! their capital and the national induftry to the imptorement of domellic arts. And from the perfection of modern machinery, the cotton manufacture, a rece:it ac-* Laing's quifition, in all its branches fo prodigioully increafed, "\%, \%. of already rivals and fupplants the productions of the an- Scotland, cient looms of Indoftan *.

Connected with the commerce of Sootlond are its C . 8,20 coirs, weights, and meeafires. Since the union, the coirs eirite, are the fame both in England and Scotland; but the end meaScotch morey of account is itill occafionally employed. ities. The pound Scots is equal to 1 filling and 8 pence Englith. See Coln. The Scotch weights and meafl.res nill differ from thofe of England. Their proportions and value according to the Enylifh Sandad are explaned under Weighy and Measure.

Another fubject connected vith comnicrce is the ith- S , I land navigation. The canals of Scotland are the Furth watunn. and Clyde, the Crinan (fee Canat), the Mo kliand running 12 miles eat from Glafgorr, the Caledunian, and the Ardrofition, the two later yet unfinifted.
 ded into two claftes, viz, the IFighlanders and Lo whand a dulers; the former occupying the nortliern and mountainous ${ }^{\text {ond. }}$. provinces, the latter the fouthern diftriets. Thefe clafics differ from each other in langl:age, manners, and drefs. The Highlanders ufe the Irifh or Celtic tongue; whinc, in the low country, the langurge is the ancient Scandiliavian dialeet blended with the Anglo-Sixon.
"About half a century aco, the Highlands of Sentland were in a fate formeshiat finilar in that of Eng. land berore the Norman conqueft. The inhabitants were divided into, tribes called clans. The in 「erior orders were valals of particular chiefs, to whom they were attached, and on whom they relied for that fafety which the laws were not alone abie to enfure to therm. On the other hanl, the fecurity and confequence of a chicf. tain depended on the number and fidelity of his fervants and retainers; who, on account of their relation to him, efumed a dignity, and acquired in their manners a de-

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## S C O $\left[\begin{array}{ll}772\end{array}\right] \quad \mathrm{S}$ C O

Scotland. gree of politenefs, to which other uncivilized nations are ftrangers.
"The rents of farms which thofe vaffals occupied were inconliderable, and paid chielly in military lervice; fo that the value of a proprietor's land was eftimated, not by the money it produced, but by the men whom it could fend into the field; and that the number of dependents might be increafed, the farms, or allotments of land, were frall, and barely fofficient for a fcanty fubfiftence to the tenants. As an inconliderable proportion of the country was cultivated, and as no intercourfe fubfifted between the inhabitants and other nation, little time was employed in agriculture and commerce. Molt of it was wafted in indolence or amutement, unlefs when their fuperior fummoned them to avenge, on fome neighbouring tribe, an infult or injury. No more grain was raifed, atd no more raiment manufactured by any family, than what barely fufficed itlelf.
"Villages and hamlets, fituated in valleys for fhelter, were rudely conffructed of turf and ftone. In fpring the natives ploughed, or dug, fome adjacent patches of foil, in which barley or oats were fown; in fommer they prepared and collected turf and peat for foel ; in autumn they gathered in their fcanty crops of grain and hay; and the remainder of the year was devoted to paftime, or predatory excurfions. In winter evenings, around a common fire, the youth of both fexes generally affembled, for the fong, the tale, and the dance. A tafte for mufic was prevalent among them. Their vocal ftrains were plaintive and melancholy; their inftrumental airs were either lively fur the dance, or martial for the battle. Every family of note retained an biftorian, to narrate its heroic deeds and feats of valour, or a bard who fung the praifes of the chieftain and his clan. Some fragments of their poetry have been handed down from remote ages, and recently moulded into heroic poems. Strangers, who have ventured to penetrate into their faftneffes, they received and treated in the moft hofpitable manner; but therafelves feldom went abroad, except for the purpofes of devaftation or plander.
"Their dre's was the lat remain of the Roman habit in Europe, well faited to the nature of the country and the neceffities of war. It confifted of a light woollen jacket, a loofe garment that covered the thigh, and a bonnet that was the ufual covering for the head all over Europe, till the hat was introduced towards the end of the 16 th centory.
" Always armed with a dirk and piftols, they were ready to refift an affault, or revenge a provocation, as foon as it was given. This circumitance contributed to render them polite and guarded in their behaviour to one another. When embodied by their chieftain, they were armed with a broad fword, a dagger, a target, a muket, and two piftols. In clofe engagement, and in broken ranks, they were irrefiftible. The only foe they dreaded was cavalry. As foon as the battle was over, molt of the troops difperfed, and returned home to dirpofe of their piunder, and to provide for their families.
" Their religion was deeply tinctured with fuperftition. They lelieved in ghoits and apparitions; by appearances in the heavens they prodicted future events; they practifed charms and incantations for the cure of vaious difeafes; and to fome individuals they thought
the divinity had communicated a portion of his prefci- Scotland. ence.
" But the fate of fociety in the Highlands has been greatly changed and ameliorated fince the rebellions in 1715 and 1745 . The Roman drefs and the ufe of arms were prohibited by government; roads, comitrncted at valt expence, opened an ealy communication with the low country; and the courts of barons were fuppreffed by the jurifdiction act. The heads of clans have now ceafed to be petty monarchs, and the fervices of their vaffals are no longer requifite for their defence or aggrandifment. Diveited of their legal authority, they now endeavour to preferve their influence by wealth. With this view their attention is directed to the improvement of their eftates. Their ancient mode of living is alfo entirely altered; and the Highland gentleman, in every refpect, differs little from a proprietor of the like fortune in the fouthern counties. A firit of indultry has been excited among the tenants, while in many places arts and manufactures are encouraged.
"The manners, habits, and drefs, of the gentlemen in the low countries, refemble thofe of their Englifh neighbours, with whom they have frequent intercourfe. The peafantry and middle clafs are fober, indultrious, and good economifts; hofpitable and difcreet, intelligent, brave, fteady, humane, and benevolent. Their fidelity to one another is a friking feature in their character. In their mode of living and drefs there are fome peculiarities, but thefe are gradually wearing out. Within thefe few years the ufe of pottage, and bread of * Playoatmeal, is almoft difufed among the commonalty; and fair's Geog. tea, wheaten bread, and animal food, are as frequent vol. ii, on the north as on the fouth of the Tweed *:"

Theugh the diet of the fuperior claffes in Scotland Diet ${ }^{83}$ differs little from that of the fame rank in England, there are ftill fome peculiarities not generally known to ftrangers, which delerve notice. Among the peculiar Scotch difhes we may enumerate the haggies, a fort of hath, made of the longs, heart, and liver, of a fheep, minced fine, and mixed with fuet, oatmeal, onions, pepper, and falt, and boiled in the fheep's maw or ftomach; hotchpotch, a foup, prepared from mutton or lamb, cut into fmall pieces, with a large quantity of green peafe, carrots, tornips, onions, and fometimes celery or parfley, ferved up to table with the meat and vegetables in the foup; cockie-leekie, a foup made of a cock or capon, with a large quantity of leeks; crappit-heads, i. e. the heads of haddocks ftuffed with a pudding made of the foft roe, or butter, oatmeal, onions, and fpices, and boiled; fifb and fauce, a fort of flew, made of haddocks, whitings, or codlings, ftewed with parfley, onions, butter, and fpices; and the celebrated old dilh of finged fiecp's-liead, i. e. a fheep's-head, with the $\mathbb{A}$ in on, and the wool finged off with a hot iron, well boiled with carrots, tornips, onions, \&c. fo as to form a rich broth, which is generally ferved up diftinct from the meat.

On the fubject of the Scottifh diet the following lively remarks of an intelligent French naturalift may prove acceptable to our readers. Thefe remarks refer particularly to the higher ranks in the Weltern ifles; but they will, with fome limitation, apply to the fame clafs irr the greater part of Scotland. "The Englih eat very little bread; the Scots eat more : there were three dif.t ferent kinds ufed at Mr M•Lean's table.
"The

## S C O [ 773 ] S C O

Scotland. "The firft, which may be regarded as a luxury for the country, is Tea-bifcuit, which veffels from Glafgow fometines leave in paffing.
" The fecond is made of oatmeal, formed into an unleavesied dough, and then fpread with a rolling pin into round cakes, about a foot in diameter, and the twelfth part of an inch thick. Thefe cakes are baked, or rather dried, on a thin plate of iron, which is fufpended over the fire. This is the principal bread of fuch as are in eafy circumitances.
" The third kind, which is fpecially appropriated to tea and breaktaft, in the oputent families of the illes, confifts of barley cakes, without leaven, and prepared in the fame manner as the preceding, but fo thin, that, after fpreading them over with butter, they are eafily doubled into feveral folds, which render them very agreeable to thofe who are fond of this kind of dainties.
"At ten in the morning the bell announces tbat breakfaft is on the table. All repair to the parlour, where they find a fire of peat, mixed with pit-coal, and a table elegantly ferved up, and covered with the following articles:
" Plates of fmoaked beef; cleefe of the country, and Engliih cheefe, in trays of mahogany; freth eggs; falted herrings; butter; milk and cream ; a fort of bouillie of oatmeal and water (porritch). In eating this bouillie, each fpoonful is plunged into a bafon of cream, which is always befide it. Milk worked up with the yolks of eggs, fugar, and rum. This fingular mixture is drank cold, and without being prepared by fire. Currant jelly; conferve of bilberries, a wild fruit that grows among the heath; tea; coffee ; the three forts of bread above mentioned, and Jamaica rum.
"Such is the ftyle in which Mr M•Lean's breakfafttable was ferved up every morning while we were at bis houfe. There was always the fame abundance, with no other difference, in general, than in the greater or lefs variety of the difhes ( E ).
" Dinner is put on the table at four o'clock. It confifts, in general, of the following particulars, which I correctly noted in my journal.
" I. A large difh of Scotch foup, compofed of broth of beef, mutton, and fometimes fowl, mixed with a little oatmeal, onions, parney, and a confiderable quantity of peafe. Inftead of flices of bread, as in France, fmall flices of mutton, and the giblets of fowls, are thrown into this foup. 2. Pudding of bullock's blood and bar-ley-meal, feafoned with plenty of pepper and ginger. 3. Excellent beef fteaks, broiled. 4. Roafted mutton
of the beft quality. 5. Potatoes, done in the juice of Scotiand. the mutton. 6. Sometimes heathcocks, woodcocks, or water-fowl. 7. Cucumbers and ginger, pickled with vinegar. 8. Milk, prepared in a variety of ways. 9. Cream and Madeira wine. 10. Pudding made of barley-meal, cream, and currants, done up with fuet.
" All thefe various difhes appear on the table at the fame time, the miftrefs of the houfe prefides, and ferves all around.
" In a very fhort time the toafts commence; it is the bufinefs of the miftrels to begin the ceremony. A large glafs, billed with port-wine, is put into her hand; fhe drinks to the health of all the company, and paffes it to one of the perfons who fit next to her; and it thus proceeds from one to another round the whole table.
" The fideboard is furnifled with three large glafles of a fimilar kind, of which one is appropriated to beer, another to wine, and the third to water, when it is called for in its unmixed ftate, which is not often. Thefe glaffes are common to all at table : they are never rinfed, but merely wiped with a fine tawel after each perfon drinks.
" The deffert, from the want of fruit, confifts for the moft part only of two forts of cheefe, that of Chelhire, and what is made in the country itfelf.
" The cloth is removed after the deflert; and a table of well-polithed mahogany appears in all its lullre. It is foon covered with eleyant glafs decanters of Britifh manufacture, containing port, cherry, and Madeira wines, and, with capacious bowls, filled with punch. Small glaffes are then profufely diftributed to every one.
" In England the ladies leave table foon after the toafts begin. The cuftom is not precifely the fame here, they remain at leaft half an hour after, and juftly partake in the feftivity of a fcene, in which formality being laid afide, Scottifh frasknefs and kindnefs have full room to difplay themfelves. It is certain that the men are benefited by this intercourfe, and the ladies are nothing the lofers by it. The ladies then left us for a little to prepare the tea. They returned in about half an hour after, and the fervants followed them with coffee, frall tarts, butter, milk, and tea. Mufic, converfation, reading the news, though a little old by the time they reach this, and walking when the weather permits, gll up the remainder of the evening; and thus the time paffes quickly away. But it is fomerrhat unpleafant to be obliged to take one's feat at table again about ten o'clock, and remain until midnight over a fupper nearly of the *Sec fame fare as the dinner, and in no lefs abundance \#." Saint-
The public amulements in Scolland nearly refemble fond's Trathofe of England, efpecially among the higher clafes. $\quad$. 6.5 vol. it.

There ${ }^{\text {p. } 67 .}$
(E) The abundance provided at a Scotch breakfalt has been remarked by many travellers. Of thefe Knox, who travelled more upon the main land than in the illands, gives the following particulars of the breakfafts of the more wealthy families:-
"A dram of whifky, gin, rum, or brandy, plain or infufed with berries that grow among the heath, French rolls, oat and barley bread, tea and coffee, honey in the comb, red and black currant jellies, marmalade, conferves, and excellent cream, fine flavoured butter frefh and falted, Chehire and Highland cliecfe, the latt very indifferent; a plateful of very frefh eggs, frefh and falted herring ${ }^{3}$, broiled ditto, hadducks and whitings, the fkin being taken off; cold round of venifon; beef and mutton hams. Befides thefe articles, which are commonly placed on the table at once, there are generally cold beef and moorfowl to thofe who choole to call for them. After breakfaft the men amufe themfelves with the gun, fifhing, or failing, till the evening, when they di:es; whick meal ferves with fome farcilies for funper."

## S C O [774] S C

Scotzand There are, however, two games which may be confi-

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nients.
dered as peculiar to the Scotch. Thefe are golf and curling. Of the former we have given an account under the article Gour. The diverfion of curling, which is we believe unknown in England, is adapted only to frofty weather, and is played on the ice, by tliding from one mark to another large tiones, of from forty to feventy pounds weight, of a hemifpherical flape, very fmooth on the flat fide, and furnilied with an iron or wooden handle at top. The great object of the player is to lay his ftone as near to the mark as poffible, to guard that of his partner which had before been placed in a good pofition, or to Atrike off that of his antagonift. To attain thefe ends much fill and dexterity are often required ; and the great art of the game is to make the foones bend in towards the mark, when this is fo blocked up by other fones that they cannot reach it by being directed in a ftraight line.

To conclude: The union having incorposated the two nations of England and Scotland, and rendered them one people, the dillinctions that lad fubfifted for many ages are gradually wearing away. Peculiarities difappear; fimilar manners prevail in both parts of the ifland; the fame authors ate read and admired; the fame entertainments are frequented by the elegant and polite ; and the fame flandard of taite and of language is eflablifhed throughout the Britifh empire.
New Scotland. See Noya scotia.
SCOTO Irish, in Hiflory, an epithet applied, by fome writers on Scottifh antiquities, to the colony of Irifh, commonly called Dalriads or Dalriadinians, viho, in the beginning of the fixth century, eftablithed themfelves in the diftrict of Galloway ; and formed a diftinct tribe, till, under the reign of their king Kenneth II. they united with the Picts, whom they had nearly fubcued. Sie Chalmers's Coledonin, vol. i. and ScotLAND, from $n^{\circ} 3$ 1, to $n^{\circ} 85$.

Scoto Saxon period, is by Mr Chalmers applied to that period of Scotlifh hitory which elapfed from the acceefion of Edgar, the fon of Malcolm Canmore, to the throne of Scotland in the cear $1=97$, to the reign of Robert Bruce in 1306. See Scorland from $n^{\circ} 86$. to $n^{\circ} 164$.

SCOTOMIA, in Mcdicins, a veltigo, accompanied ait' dinmess of light, frequently the forerumer of an dpoplexy.

SCOTT, JoHs, an eminent Englifh divine, was born in 1638 , and became niniffer of St Thomas's in Southwark. In $169_{+}$he was collated to a prebend in the cathedral of St Paul's. Dr Hickes tells us, that, after the revolution, " he firt refufed the bifhopric of Chefier, becaufe he would not take the oath of homage; and afterwards another bithopric, the demery of TVorceller, and a prebend of the church of Windfor, tecaufe they were all places of deprived men." THe sublified feveral excellent works, particularly The C!riftian Life, \&ec, and died in 1695 . He was eminent for his jumanity, affability. fincerity, and readiin fs to do good; and his talent for preaching was extr ordinary.

SCOIUS, Duns, See Duns.
Scotus. J. hn See Ertgesia.
SCOUG 1 L, Hexry, fecond fon of Patrick Scougal, bithop of Aberdeen, was born, June 1650 , at Salton is Eaft Latlian, where Lis futhe:, the iumediate pre-
decefior of Bithop Burnet, was rechor. His father, defigning him for the facred miniftry, watched over his infant mind with peculiar care; llor was his care beflowed in vain. He bad foon the fativaction of perceiving the moft amiable difpofitions unfold themfelves, and his underttanding rife at once into the vigous of manhood. Relinquilhing the amufements of youth, young Scougal applied to his ftudies with ardouz; and, agreeabie 10 his father's with, at an early period be directed his thoughts to facred literature. He peruled the hiftorical parts of the bible with peculiar pleafure, and then began to examine is contents with the eye of a philofopher. He was ftruck with the peculianities of the Jewifh difpenfation, and felt an ansiety to underfland the reafon why its rites and ceremonies were abolifhed. The nature and evidences of the Chriltian religion alfo occupied his mind. He perufed fermons with pleafure, committing to writing thofe paffages which moft affected him, and could comprehend and remember their whole fcope. Nor was he inattemive to polite literature. He read the Roman claffics, and made confiderable proficiency in the Greek, in the Hebrew, and other oriental languages. He was alfo well well verfed in biftory and mathematics. His diverfions were of a manly kind. After becoming acquainted with the Roman hillory, in concert with fome of his companions he formed a little fenate where orations of their own compontion were delivered.

At the age of fifieen he entered the univerfity, where he behaved with great modefty, fobriety, and diligence. He difliked the philofophy then taught, and applied himfelf to the fludy of natural philufophy; that philofoply which has now happily got fuch footing in the world, and tends to enlarge the faculties. In confequence of this, we may here obferve, that when he was yet about eighteen years of age, he wrote the reflections and flort effiass fnce publiked; which, though written in his youth, and fome of them left unfinifhed, breathe forth fo much devotion, and fuch an exalted foul, as mult convince us his converfation was in heaven.

In all the public meetings of the fudents he was unaninooufly chofen prefident, and had a fingular deference faid to his judgement. No fooner had he finif:ed his courfes, than he was promoted to a prefefforthip in the univerfity of Aberdeen, where he confcientiounly performed hit duty in training up the youth under his care in fuch principles of learning and virtue as might render them ornaments to chuch and Atate. W'hen any divifions and anim:ofities happened in the fociety, he was very inftrumental in reconciling and loringing them to a good underflanding. He maintained his autl:ority among the ftudents in fuch a way ${ }^{23}$ to keep them in awe, and at the fame time to gain their love and efteem. Sunday evenings were fpent with his fcholars in difcourfing agrintt vice and impiety of all kinds, and encouraging religion in principle and practice. He allotted a confidera'le part of his yearly income for the poor ; and many indigent fanilies, of different perfuafions, were reliered in their frnits by his bounty; though fo fecretly that they knew not whence their fupply came.

Having been a profeffor of philuwophy for four years, he was at the age of twenty-three ordained a minifter, and fettled at Auchterlefs, a fimall village about twenty miles from Aberdeen. Here his zeal and ability for his

Scounal. $\xrightarrow{\text { Conn }}$ great Mafter's ferrice were eminently difpiayed. He catcchifed with great plainnefs and affection, and ufed the mof endeariing methods to recommend religion to his hearers. He endeavoured to tring thens to a clo:e attendince to plblic wormip, and joired with tham himtelf at the biginning of it. He revived the ufe of lectures, looking ou it as very ediiyi.g to comment upon and expound large portions of S ripture. Ard through he endured feveral outward inconveniencies, yet he bore them with patience and meeknefs. But as God had defigned him for an e minent hation, where he could be of more univerfal ute in his church, he was ren:oved from his private charge to that of treing up youth for the holy minill ry and the care of fouls. In the twel.iy fith jear of his age he was admitted profeffor of divinity in the king's college, Aberdeen; and thourt he was unanimonfly chofen, yet he declined a flation of fuct importance, from a modelf fenfe of his unfitnefs for it: And as he had been an ornament to his other flations of life, fo in a particular man ner he ap; ilied himflelf to the exercife of this eflice. After he lind guarded his fiutdents againft the common artifices of the Romith miffionarits in making prolelytcs, he propofed two fulpicets for public exercife; ; the one, of the patoral care; the other, of cafuiftical divinity: but there were no debates he was more cautious to meddle with than the decrees of God ; femfible that fecret things belong to God, and to us things revealed.

The inward difpofitions of this excellent man are beft feen in his writings; and the whole of his outward behaviour and converfation was the conftant practice of what he preached; as we are affured by the concurring teltimony of feveral refpectable petfons who knew him. How unfuitable then would panegyric be, where the fu'gieet was full of humility? and therefore let it fuffice to lay, that after he began to appear publicly, you fee him as a profeflor, earneft at once to improve his fcholars in human and facred learning; as a pattor, he ceafed not to preach the word, to exhort, to reprove, and to rebuke with all authority : and as a profeflor of divinity, he beftowed the utmoft pains to convince the candidates for the miniftry, of the weight and importance of that high office; that it was not to be followed for lucre, but purely to promote the worthip of God and the falvation of men. A gain, if we confider his private life, how meek, how charitable, and how felf denied! how difinterefled in all things, how refigned to the divine will! and above all, how refined his featiments with regard to the love of God! How amiable mult he then appear! How worthy of imitation, and of the univerfal regret at his death! In this light we fee clearly that the memory of the juft is bleffed.

At length his heailh began to be impaired by inceffiant fudy, and about the twenty feventh year of his age he fell into a confumption, which wafted him by flow degrees. But during the whole time of his ficknefs he behaved with the utmolt refignation, nor did he ever frow the leaff impatience.

When his friend's came to vifit him, he would fay, "he had reafon to blefs God it was no worfe with him than it was. And (fays he) when you have the charity to remember me in your prayers, do not thiuk me a better man than I am; but look on me, as indeed I am, a miferable finner." Upon the twentieth day of Juno $16,-8$ he died, in the greatent calmnefs, in the
twenty eighth year of his age, and vas burid in the King's College church in Oid Aberdeen. The principal work of Scougal is a finall treatife intitled, The Life of Gcd in the Soul of Man. This book is not only v.iu. ble for the fublime fyirit of pie:y which it breathes, but for the purity and elegrance of its fifle; qualities for v:hich few Englith wrikers ware diftinguilhed before the revolution.

SCOUTS, in a military fenfe, are generally hasemen fent out before, and on the wings of an army, at the diAlance of a mile or two, to difover the enemy, and give the general an account of what they fee.
SCRATCH. FANs, in the Enghith falt-works, a name given to certain leaden pane, which are ufuailly made about a foot and an h:: It lo:ig, a foot broad, and three inches deep, with a bow or circular handle of iion, by which they may be drawn out with a thook when the Inquer in the paa is builang. Their ule is to reccive a feleniti: matter, known iy the mame of /ft featch, which falls duri)g the cvap ration of the fil-water. See the articlo S. .2-S.ILT.
SCREED, with platerers, is the floated work beltind a cornice, and is only neceffiry when a connice is to be executed without bracketing.

SCREW , one of the fix mechanical powers, is a cylinder cut into feveral concave furfaces, or rather a ciannel or groove made in a cylinder, by carrying on two fpiral planes the whole length of the fercir, in fuch a manner that they may be always equally inclined to the axis of the cylinder in their whole progrefs, and alfo inclined to the bafe of it in the fame angle. Sce Mechanies, p. 66, $\mathrm{N}^{\circ}{ }_{131}$.

Archimedes's Screw. See Hydrodyramits, No 328.
Endifefs or Perpetual SCHEIF, one fo fitted in a compound machine as to turn a dented whecl; fo called, becaule it may be turned for ceer without coming to an end. See Xechavics, p. $67 . \mathrm{N}^{0}{ }^{135}{ }^{-}$

SCRIBE, in I Sebrew 7oo fopher, is very common in fcripture, and has feveral fignifications. It fignifies,

1. A clerk, writer, or fecretary. This was a very confiderable employment in the court of the kings of Judah, in which the fcripture often mentions the fecretaties as the firt officers of the crown. Seraish was feribe or fecretary to King David (2 Sam. viii. 17.). Shevah and Shemaiah exercifed the fame cffice under the fame prince ( 2 Sam. xx. 25.). In Solomon's time we find Elihoreph and Ahia tecretaries to that prince (1 Kings iv. 4.) ; Shebua under Hezekiah (2 Kings xix. 2) ; and Shaphan under Jofiah (2 Kings sxii. 8.). As there were but few in thole tincs that could write well, the employment of a fcribe or writer was very confiderable.
2. A fribe is put for a commiffary or mufler-obafler of an army, who makes the review of the troops, keeps the lift or roll, and calls them over. Under the reign of Uzziah king of Judah, there is found Jeil the fcribe who had under his hand the king's armies (2 Chr. xxvi. 11.). And at the time of the captivity, it is faid the captain of the guard, among other confiderable perfons, took the principal feribe of the hoft, or fecrelary at war, which mufteied the people of the land ( 2 Kings $x x v, 19$.$) .$
3. Scribe is put for an able and fkilful man, a doflos of the law, a man of le.rning that underftands affairs. Jonathan, David's uncle by the father's fide, was a counfcllor,


## S C I $[776] \quad \mathrm{S} C \mathrm{R}$

Scribe counfellor, a wife man, and a fcribe ( 1 Chr. xxvii. 32 .). scribonius.

Baruch, the difciple and fecretary to Jeremiah, is called a foribe (Jer. xxxvi. 26.). And Ezra is celebrated
as a fkilful feribe in the law of his God (Ezra vii. 6.). The fcribes of the people, who are frequently mentioned in the Gofpel, ware public writers and profeffed doctors of the law, which they read and explained to the people. Some place the original of fcribes under Mofes: but their name does not appear till under the judges. It is faid, that in the wars of Barak againft Sifera, "out of Machir came down governors, and out of Zebulun they that handle the pen of the writer." (Judges v. 14.). Others think that David firft inftituted them, when he eftablifhed the feveral claffes of the prielts and Levites. The frribes were of the tribe of Levi; and at the time that David is faid to have made the regulations in that tribe, we read that 6000 men of them were conftituted oflicers and judges ( 1 Chr. xxiii. 4.) ; among whom it is reafonable to think the fcribes were included. For in 2 Chr. xxiv. 6. we read of Shemaiah the fcribe, one of the Levites; and in ${ }_{2}$ Chr. xxxiv. 13. we find it written, "Of the Levites that were fcribes and officers."

The fcribes and doctors of the law, in the feripture phrafe, mean the fame thing; and he that in Mat. xxii. 35 . is called a doctor of the low, or a lawyer, in Mark xii. 28. is named a fcribe, or one of the fcribes. And as the whole religion of the Jew's at that time chiefly confifted in pharifaical traditions, and in the ufe that was made of them to explain the fcripture ; the greateft number of the doctors of the law, or of the fcribes, were Pharifees; and we almoft always find them joined together in Icripture. Each of them valued themfelves upon their knowledge of the law, upon their fludying and teaching it (Mat. sxii. 52.): they had the key of knowledge, and fat in Mofes's chair (Mat. xxiii. 2.). Epiphanius, and the author of the Recognitions impured to St Clement, reckon the fcribes among the fects of the Jews; but it is certain they made no feet by themfelves; they were only diftinguifhed by their study of the lav.

SCRIBONIUS, Largus, an ancient phyfician in the reign of Auguftus or Tiberius, was the author of
feveral works; the beft edition of which is that of John Scrimseor. Rhodius.

SCRIMZEOR or Scrimgeour, Henry, an eminent reftorer of learning, was born at Dundee in the year 1506. He traced bis defcent from the ancient family of the Scrimzeours of Didupe or Dudhope, who obtained the office of hereditary ftandard-bearers to the kings of Scotland in 1057.

At the grammar-fchool of Dundee our author acquired the Greek and Latin languages to an uncommon degree of perfection, and that in a fhorter time than many fcholars before him. At the univerfity of St Andrew's his fuccefsful application to philofophy gained him great applaufe. The next fcene of his ftudies was the univerfity of Paris, and their more particular object the civil law. Two of the moft famous civilians of that age, Eguinard Baron and Francis Duaren (A), were then giving their lectures to crowded circles at Bourges. The fame of thefe profeffors occafioned his removal from Paris; and for a confiderable time he profecuted his ftudies under their direction.

At Bourges he had an opportunity of becoming acquainted with the celebrated James Amiot, Greek profeffor in that city, well known in the learned world by his tranflation of Plutarch's Lives, and diftinguifhed afterwards by his advancement to great honours in the church, and finally to the rank of cardinal.

Through the recommendation of this éminent perfon, Mr Scrimzeor engaged in the education of two young gentlemen of the name of Bucherel, whom he inftructed in the belles lettres, and other branches of literature, calculated to accomplifh them for their \&tation in life.

This connection introduced him to Bernard Bornetel bithop of Rennes, a perfon famed in the political world for having ferved the fate in many honourable embaffies. Accepting an invitation from this prelate to aecompany him to Italy, Mr Scrimzeor greatly enlarged the fphere of his literary acquaintance, by his converfation and connection with moft of the diftinguifhed fcholars of that country. The death of Francis Spira (B) happened during his vifit to Padua; and as the character and conduct of this remarkable perfon at that time engaged
(A) "Francis Duaren was the firf of the French civilians who purged the chair in the civil law fchools from the barbarifms of the Gloffaries, in order to introduce the pure fources of the ancient jurifprudence. As he did not defire to fhare that glory with any one, he looked with an envious eye on the reputation of his colleague Igguinard Baron, who allo mived good literature with the knowledge of the law. This jealoufy put him upon compofing a work, wherein he endeavoured to leffen the efteem that people had for his colleague. The maxim, "Pafcithr in vivis liver ; pof fata quiefcit,' was verified remarkably in him; for after the death of Baron, he fhowed himfelf molt zealous to eternize his memory, and was at the expence of a monument to the honour of the deceafed." From the 'Ti.nilation of Bayle's Dict. of 1710 , p. 1143.4 .
(B) Francis Spira was a lawyer of great reputation at Cittadella in the Venetian flate, at the beginning of the 16th century. He had imbibed the principles of the Reformation, and was accufed before John de la Cafa, archbifhop of Benevento, the pope's nuncio at Venice. He made fome conceffions, and alked pardon of the papal minifter for his errors. But the nuncio infifted on a public recantation. Spira was exceedingly averfe to this meafure; but at the preffing inftances of his wife and friends, who reprefented to him that he mull lofe his practice and ruin his affairs by perfifting againft it, he at laft complied. Shortly after he fell into a deep melancholy, loft his health, and was removed to Padua for the advice of phyficians and divines; but his diforders augmented. The recantation, which be faid he had made from cowardice and intereft, filled his mind with continual horror and remorfe ; infomuch that he fometimes imagined that he felt the torments of the damned. No means being found to refore either his health or his peace of mind, in $154^{\text {S }}$ he fell a victim to his miferable fituation. Sce Collyer's Dit.-Spira.

Scrimasot engaged the attention of the world, iir Scrimzeor is fard to have collected memoits of him in a publication entitled, "The Lite of Francis Spira, by Henry of Scotland." "his perturmance, however, does not appear in the catalogue of his works.

Atter he had itored his mind with the literature of foreign countries, and fatisfied his curioity as a traveller, it was his intention to have revilited Scotland. He mi he without vanty have entertained hopes, that the various kiowledge which he had treatured up would lave won him a partial reception among his countrymen. An ambition of being ufetully ditinguilhed among them as a man of letters is juftly fuppoied tie principal motive of his defire to returia: but the moft finguice projects of live are often ftrangely diverted by accident, or rather perhaps are invifibly turned by Prowidunce, from their purpoled courfe. Mr Scrimzeor, on his journéy homewards, was to pafs through Gencva. IIis fame had long forcrun his footfteps. The fyndics and other magittrates, on his arrival, requetted him to fet up the profeflion of philofophy in that city; promifing a compeniation fuitable to the exertion of his taients. He accepted the propofal, and entablithed thic philotophical chair.

After he had taught for fome time at Genera, a fire broke out in his neighoourhood, by which his houle was confumed, and himfllf reduced to great diflrels. His late pupils, the Bucherels, had not forgotten their obligations to him, and fent a confiferavele tum of money to his relief.

At this time flourithed at Augfburg that famous merci:rile family (c), the Fuggers. Uiric Fugger was then its reprefenta ive; a man puffefled of prodigivis wealth, pafi nanely fond of literature, a great collector of books and manufcripts, and a munificent patron of learned men. Being informed, by means of his liverary correlpondence, of the misfortune which had be allen Mr Scrimzeor in the burning of his houfe, he immediately fent him a preffing invitation to accept an afy:um beneath his roof till nis affairs conld be ree.lablithed. Mr Scrimzeor, slad y availing limielf of fuch a hofpitable kindnel's, loit no time in going to Germany.

Whilit refiding at Augfou:g with Mr Fugger, he was much employed in augmenting his patron's library by vait collections, purchafed from every corner of Europe. Manufcripts of the Greek and Latin authors were then of ineftimable value, and feem to have been more particularly the object of Mr Scrimzeor's refearches.

He did not lead a life of yawni. $g$ incolence amidit there trcafures, and. like a mere unfeeling coilector, leave thom unerijoyed. As libratian, he was not contented to act the part of a black eunuch to his literary feraglio. He feems to have forgotien that he was not its Grand Sultan, and accordingly ranged at will among furrounding beauties. He compofed many works of Vol. XVIII. Part II.
great learning and ingenuity, whilit he continued $1: 1$ a Scrimzesr. fituation fo peculiarly agrecable to the views and habits of a fcholir.

When his manuforipts were ready for the prefo, lac was defirous of returting to Geneva to print them. His pation, Fugger, recommended him for this purpofe to the very learned Menry Stephens, one of his penfioners, and at that time one of the moit cclebrated printers in Europe.

Immediately on lis arrival at Genera, 1563 , he was earnefly lolicited by the margitrates to relume the chair ot philofophy. Notwithtianding his compliance, and in confequence of it the dedication of much of lis time to the fludy of phyfics, he, two years afterwards, intlituted a courle of lectures in the civil law, and had the honour of being its firit founder and profeflor at Genera.

As foon as he was feutled again in this city, he hoped, amidit his other occupations, to profecute the great object of his literary fame, the printing of his various works. But a fulpicion which Henry Stephens enterained, that it was his intention to fet up a rival prels at Genera, occafioned great diffenfions betweer them. The refult of the quarrel was, that the repuolic of letters, during Mr Scrinizeot's life, was deprived of his valuable productions. They fell muft of them at his death into the hands of Ilaac Calaubon, who has been accufed of publihing confiderable portions of them as his own.

Some account of Mr Scrimzeor"s feveral performances will give an idea of his extenfive erudition.

He wrote critical and explanatory notes upon Atheneus's (D) Deipnofophijls, or Table converfations of Philofophers and Learned Men of Antiquity; having firit collated leveral manulcripts of his author. This work Cafaubon publifhed at Leyden in 1650 ; but without dillinguilhing his own notes from thoie of Scrimzeor.

A Cummentary and Emendations of the Geography of Strabo were among our author's literary remains. Thefe were publifhed in Cafaubon's Parifian edition of Strabo, 1620 . Henry Stephens, from m, idea of juftice due to Scrimzeor's literary fame, notwithtanding the violent animofity which had fubfffed betwixt them, reproaches Cafaubon for adunting our Scottilh-critic's lucubrations on Strabo without acknowledgement.Dempiter aifures us, that Scrimzeor, in his manufcript letters, mentions his defign of publithing this performance; whence, it is probable, that his work appeared to himelf of confiderable confequence, and had taken up much of his atten ion. Although Cafubon, in his am 1. noles exibited at the foot of Strabo's text, hak no confellion of having derived any thing from Scrimzeor, it muft not be conceaied, that in an cpiftle t.) Sir Peter Ioung, our critic's uephew, through whom t:e Commentary and Emendations of Strabo came into his hands, Cafaubon acknowledges how very ufeful to bin they might be made; for 「reaking there of his in-
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tended
(c) They were ennobled by the emperor in 1510 , under the titie of Barons of Kirkberg and Weiffenborn.
(D) Athence is was a grammarian of Ntuerates in Envpt, and livet in the fecond century. His Deipnofophiflie is a very curious and learned work, in 15 ho,ks. It is full of intereflins ancedotes and defcriptions of anciest mank ners, and has preferved ruany relics of Grecian poetry not to be found clievhere.

## S C R <br> 778 ]. $\quad \mathrm{S}$ C R

Scrimer : tendedi calion of Strabo, he fays," It cannot be expreffed hon much affitance I may obtain from your neit of Scimzeo:"

Eaward Herrilan, a Scotsith author, in his Commentny in Plutarch's Fook concerning the Inconfiftuncies if the Sioics, riforms us, that Scrimzeor collated diffirent manutcripts of all the urnis of Plutarch. This noderaking appears folicient to have cccupied half the Sie of an ordmans critic. Every one knows how volumis us an wethor wos the rhilofopher, the lintorion, and outhr of Clixumea. Whel hes our learned critic had meant to publith an edition of Plutarch's works is not known ; but iuch an intention fuems highly probable from this laborious enterprife of collating them.

The 10 books of Diogencs Laertius on the Lives, Opinions, and Apophthegms of the Philofophers, were collated from various manufcripts by Scrimzeor. His corrected text of this author, with notes full of erudition, came aifo into Cafaubon's poffeffion, and is fuppolfd to have contributed much to the value of his edition of the Grecian Biographer, printed at Paris in ${ }^{1} 593$.
The works of Phornutus and Palephatus wcre alfo among the collations of Mr Scrimzeor. To the latter of thefe authors he made fuch confiderable additions, that the work became partly his own. Thefe were two ancient authors who explain the fables of the heathen deities. The former wrote De Natura Deorum, Cel de Fabularum Poeticarum Allegoriis Speculatio, "On the Nature of the Gods, or the Allegorical Fictions of the Poets." The latter entitled his book Aniso, Sive ie falis Aarrationibus, "Things incredible, or concerning falfe Relations." Thefe weiks were printed at Bafil, 1570; whether in Greek or Latin is uncertain. They have been publifhed fince in both languages.

The manufripts of them were for fome time preferved in the library of Sir Peter Young, after that of his uncle Scrimzeor, which was brought into Scotland in 1573, had been added to it. What became of this valuable bequeft at the death of the former, is uncertain.

Our lcarned philologer alfo left behind him in manufrript the orations of Demoflhenes, IEfchines, and Cicero, and the Ecciefiaftical Hitory of Eufebius, all carefully collated.

Among his literary remains was a collection of his Latin epifles. The men of letters in the 15 th and 16 th centuries feem to have kept their republic, as it is called, more united and compact than it is at prefent, by an epifolary intercourfe in the Latin language, then the univerfal medium of literature and fcience. This general fpirit of communication could not but contribute greatly to the advancement of learning, as well as to the pleafure, and, we may add, to the importance, of thofe who were engaged in its purfuit. The intercourfe and union of enlightened men, able and difpofed to promote the happinefs of their fellow-creatures, cannot be too cluie. From fuch intellectual combination alune it is, that uniformity of religious, moral, and political principles, to its greateft attainable degree, can ev r be expected; or, in other words, the greate? poffible benefit derived from the cultivation of letters.

Of the many performances which had excrefifed his pen, it does not appear that any were immediately publifhed by himfelf but his 'Tranfation of Juftinian's No-
vels into Greek. This was printed at Paris in 1558 , Scrimzeor, and again with Holoander's Latin verfion at Antwerp $\underbrace{\text { Scripure. }}$ in 1575 . This work has been highly extolled, both for the purity of is language and the accuracy of its execution, and is likely, according to fome refpcetable opinions, to hold its ellimation as long as any ufe or memory of the civil lars thall exift.

A Latin trampation of the Baficica, or Bafilics, as they are callicd by our civilians, is the laft we have to mention of this author's performances. This is a colleciion of Roman Lavs, which the eaftern emperors Eafil and Leo, who reigned in the fifih century, commanded to be tr.mflated into Greek, and which preferved their authority till the diffolution of the eaftern empire. The Bafilics comprehend the inftitetes, digens, code, and novels, and fome of the edicts of Juftinian and other emperors. Of 60 original books, 41 only remain. Mr Scrimzeor collated them with various manufcripts, probably before he commenced his tranflation.

From the foregoing recital of the learned labours of this profound fcholar and critic, it uill be concluded, that almof the whole of his life, although long, was fpent in his library, and that the biographer, baving now terminated the catalogue of his writings, is probably not diftant from the conclufion of his life. Diferent years have been affigned for the time of his death; but it appears mof likely, from a comparifon of the different accounts of this event, that it happened very near the expiration of 1571 , or at the beginning of the fucceeding year, about the 66th year of his age. He died in the city of Geneva.

The characteriftic features of Scrimzeor are fers, but they are prominent and ffriking, and remote pofferity may regard him with no inferior degree of refpect. His induftry and perfeverance in the purfuit of knowledge and erudition were equalled only by the exquifite judgement whicly he difplayed in his clitical annotations and commentaries on the errors and obfcurities of ancient books and manufcripts.

His acquifitions in the Greek, Latin, and oriental languages, were reckoned much beyond thofe of moft of the profeffed linguifts of his time. The great Cujacius ufed to fay, "That he never quitted Mr Scrimzeor's converfation without having learned fomething new." But that which gave peculiar grace to fuch fupcriority, was the amiable modetly which on all occafions was oblerved to accompany it. From the commendation given him by the illuftious civilian jult mentioned, it will be concluded, that he did not brood, with a jealous referve, over unlocked treafures of erudition; but that, confcious of poffeffing flores too ample to be foon exhaufted, at the fame time that he avoided an oftentatious profufion of them, he obliged and delighted his friends by a liberal communication. From the period at which he lived, confidered with the nature and extent of his תudies, and his abilities in profecuting them, he may be defervedly ranked among thofe eminent characters who have mof fucceffully contributed their exertions to the revival of letters in Europe.

SCRIPTURE is a word derived from the LatinScriptares fcriptura, and in its original fenfe is of the fame import af the old with weriting, fignifying "" any thing written." It is, and New however, commonly ufed to denote the writings of the mentas. Old and New Teftaments; which are fometimes called

## $\mathrm{S} C \mathrm{R} \quad[75 \mathrm{C}] \quad \mathrm{S}$ C R

Scripas: ,he Scriptures, fometimes the facred or holy Scriptures, $\xrightarrow{\square-}$ and fometimes canonical Scripture. Thele books are called thie Scriptures by way of eminence, as they are the molt important of all writings; they are faid to be haly or facred on account of the facred doetrines which they teach; and they are termed canonical, becaule when their number and authenticity were alcertained, their names were inferted in ecclefiaftical canons, to dittinguith them from other books; which, being of no autharity, were kept as it were out of fight, and therefore ityled apocryphal (A).

The authenticity of the Old reftament proved 3 from the character of the Jews

The authenticity of the Old Ceftament may be proved from the charater of the Jews, from internal cvidence, and from tellimony.
t. The character of the Jews affords a ftrong prefumotice evidence that they have rot forged or corrupted the OId 'Teftament. Were a perfon brought before a court of juftice on fufpicion of forgery, and yet no prefumptive or pofitive evidence of his guilt could be produced, it would be allowed by all that he ought to be acquitted. But farther, if the forgery alleged were inconfirtent with the character of the acculed; if it tended to expofe to difgrace and reproach his general princinles and conduct ; or if we were affured that he confidered forgery as an impious and abominable crime-it would require very ftrong teftimony to eftablifh his guilt. The cafe now mentioned correfponds exactly with the character and fituation of the Jews. If a Jew had forged any book of the Old Tcitament, he muit have been impelled to fo bold and dangerous an enterprife by fome very powerful motive. It conld not be national pride, for there is fcarcely one of thefe books which does not feverely cenfure the national manners. It could not be the love of fame; for that paffion would have taught him to flatter and extol the national character; and the punithment, if detected, would have been infamy and death. The love of wealth could not produce fuch a forgery; for no wealth was to be gained.

The Jews were felefted from among the other nations of the world, and preferved a diftinct people from the time of their emigration from Egypt to the Babylonilh captivity, a period of 892 years. The principal purpoies for which they were felected was to preferve in a world running headlong into idolatry the knowledge and worlhip of the one true God, and to be the guardians of thofe facred books that contained the prophecies which were to prove to future ages the divine miffion of the Redeemer of mankind. To fit them for thefe important trufts, the firit of their laws and the rites of their religion had the ftrongeft tendency. Miracles were openly performed, to convince them that the God of 1 frael was the God of all the earth, and that he alone was to be worfipped. Public calamities always befel them when thev became apoftates to their God; yet they continued violently attached to idolatry till their captivity in Babylon made them for ever renource it.

The Jews then had two oppofite characters at different periods of their hiflory : At firft they were addicted to idolatry; afterwards they acquired a frong antip \& thy againft it.

Had any books of the Old Teftament been forged Siriptise, before the Babylonith captivity, when the Jews were devoted to idolatry, is it to be conceived that the impoftor would have inveighed fo ftrongly againft this vice, and fo often imputed to it the calamities of the itate ; fince by fuch conduct he knew that he would render himfelf obnoxious to the people and to thofe idolatrous monarchs who perfecuted the prophets ?

But it may next be fuppofed, that "t the facred books were forged afier the Babylonifl captivity, when the principles of the Jews would lead them to inveigh againlt the worihip of idols. But thefe principles would furely never lead them to expofe the character of their anceltors, and to detail their follies and their crimes. Never had any people more national pride, or a higher reneration for their anceftors, than the Jews. Miracles and prophecies ceafed foon after their return to .lerufalem; and from that period their refpect for the facred books approached to fuperitition. They prelerved them with pious care, they read them often in their fynagogues, and they conidered every attempt to alter the text as an act of facrilege. Is it polfible that fuch men could be guilty of forgery, or could falle writings be eafly impofed on them?
2. There is an internal evidence in the books of the Old Teftament that proves them to have been written by different petfons, and at diftant periods; and enables us with precifion to afcertain a time at or before which they mult have been compofed. It is an undeniable fref that Hebrex ceafed to be the living language of the Jews curing the Babylonilh captivity, and that the Jewifh productions after that period were in general written either in Chaldee or in Greck. The Jews of Mar/h ons Palelfine, fome ages before the coming of our Saviour, the autbenwere unable, without the affitance of a Chaldee para-the five phrafe, to underftand the Hebrew original. It nece[-bocks of farily follows, therefore, that every bock which is writ-Moges. ten in pure Hebrew was compofed either before or about the time of the Babylonilh captivity. This being admitted, we may advance a ftep farther, and contend that the period which elapfed between the compofition of the moft ancient and the moft modern book of the Old Teftament was very confiderable; or, in other words, that the molt ancient books of the Old Teftament were written many ages before the Babylonifh captivity.

No language continues flationary; and the Iferew, like other tongues, paffed through the feveral ftages of infancy, youth, manhood, and old age. If therefore, on comparifon, the feveral parts of the Hebrew Bible are found to differ not only in regard to tlyle, but alfo in regard to character and cultivation, we have flrong internal marks that they were compofed at different and diftant periods. No claffichl fcholar would believe, independent of the Grecian hiffory, that the poems afcribed to Homer were written in the age of Demofthenes, the Orations of Demonlhenes in the time of Origen, or the Commentarics of Origen in the time of Lafearis and Chryfoloras. For the very fame reafon, it is certain that the five books which are afcribed to Mofes were not written in the time of David, the ${ }_{5} \mathrm{~F}_{2}$

Pfalms

## S C I

Scripture. Pfalms of David in the age of ITaiah, nor the prophecies of Ifaiah in the time of Malachi ; and fince the Hebrew became a dead language about the time of the Babylonifh captivity, the book of Malachi could not have been written much later. Before that period therefore were written the prophecies of IIaiah, tiill earlier the Pfalms of David, and much earlier than thele the books which are afcribed to Mofes.
3. Let us now confider the evidence of teftimony for the authenticity of the Old Tellament. As the Jews were a more ancient people than the Greeks or Romans, and for many ages totally unconnected with them, it is not to be expected that we fhould derive much evidence from the hiltorians of thofe nations: it is to the Jews alone we mult look for information. But it has unfortunatcly happened that few of their works except the Scriptures themfelves have been preferved to poflerity. Jofephus is the molt ancient of the Jewifh biftorians to whom we can appeal. He informs us, that the Old Tellament was divided into three parts, the Law, the Prophets, and the Hagiographa or poetical books. No man, fays he, hath ever dared to add or take awray from them. He tells us allo, that cther books were written after the time of Artaxerxes; but as they were not compofed by prophets, they were not reckoned worthy of the fame credit.

Since the promulgation of the Chrifian religion, it is impoffible that any material alterations or corruptions could have taken place in the books of the Old Teftament; for they have been in the hands both of Jews and Chritians from that period. Had the Jews atremppted to make any alterations, the Chrittians would have detected and expofed them; nor would the Jews have been lefs fevere againft the Chriftians if they had corrupted the facred test. But the copies in the hands of Jews and Chrillians agree; and therefore we juftly conclude, that the Old 'Teftament is ftill pure and uncorrupted.

The divifion mentioned by our Saviour into the Law, the Prophets, and the I'falms, correfpords with that of Jofephus. We have therefore fufficient evidence, it is boped, to convince even a deift, that the Old Teftament exifed at that time. And if the deift will only allow, that Jefus Chrif was a perfonage of a virtuous and irreproachable ch racter, he will acknowledge that we draw a fair conclufion when we affert that the Scriptures were not corrupted in his time: for when he accufed the Pharifes of making the law of no cffce by their traditions, and when he injoined his hearers to fearch the Scriptures, he could not have failed to mention the corruptions or forgeries of Scripture, if any in that age liad exifed. But we are affured, by very refpectable authority, that the canon of the Old Teflament was fixed fome cert uries before the birth of Jefus Cbrit. Jefus the fon of cilach, the author of Ecclefinfticus, makes evident referen, es to the prophecies of

- Zicile.
afticu.
atvir. 2:.
tali. 6.
$\ddagger \times 14$.
I aix. is If.i: $1_{1}^{*}$, Jeremiah $\dagger$, mat Ezekiel $\pm$, and mentions the.e prophe's by name. He $f_{j}$ ecks alfo of the twelve minor pro hets $\oint$. It appears allo from the jrol gue, that the wis and the propiets, and other anci:nt books, esift d at the fame priod. The bouk of Ecclefialicus, acco-di $g$ to the calculations of the leit chro ologers, was written in Syrice a out A. M. $3 ヶ 72$, that is, 232 years before the Chriftion in, and as tranfated into Greek in the next century ! y the grandicn of the au-
thor. The prologue was added by the tranflator : but Scripture, this circumftance does not dimminh the evidence for the $\underbrace{\text { sur }}$ antiquity of Scrupture; for he intorms us, that the lav and the prophets, and the other books of their fathers, were thuied by his grandfather : a lufficient proof that they exilted in his cime. As no authentic books of a more ancient date, except the facred writings themfelves, have reached our time, we can afcend no higher in fearch of telimony.

There is, however, one remarkable hiftorical fact, which proves the exiltence of the law of Moles at the diflolution of the kingdom of Ifrael, when the ten tribes were carried captive to Affyria by Shalnanefer, and dilperled among the provinces of that extenfive empire; that i, about 741 years before Chrift. It was about that time the Samaritans were tranfported from Affyria to repeople the country, which the cen captive tribes of Ifrael had formerly inhabited. The pofterity of the Samaritans ftill inhabit the land of their fathers, and have preferved copies of the Pentateuch, two or three of which were brought to this country in the feventeenth century. The Samaritan Pentatench is written in old Hebrew characters (fee Philology, $\mathrm{N}^{\circ} 28$ ). and therefore mult have exiffed before the time of Ezra. But fo violent were the animofties which fubfifted between the Jews and Samaritans, that in no pe. riod of their hiftory would the one nation have receired any books from the other. They mult therefore have received them at their firft fettement in Samaria from the captive prielt whom the Aflyrian monarch fent to teach them how they fhould fear the Lord ( 2 Kings xvii.).

The canon of the Old Teftament, as both Jewibh The canon and Chriftian writers agree, was completed by Ezra and Tet the Old fome of his immediate fuccefiors (lee Biele). In our fettled. copies the facred books are divided into 39. The Jews reckoned only 22 , correfponding to the number of letters in the Hebrew alphabet. They united the books of Judges and Ruth; they joined the two books of Samuel ; the books of Kings and Chronicles were reckoned one; Ezra and Nehemiab one; the Prophecies and Lamentations of Jeremiah were taken under the fame head; and the 12 minor prophets were confidered as one book-fo that the whole number of books in the Jewifh canon amounted to 22 .

The Pentateuch confifts of the five books, Genefis, The Pen. Exodus, Leviticus, Numbers, and Deuteronomy. Se tateuch veral obfervations have been already made refpecting the "nitten by authenticity of thefe under the article Pertaticich; but feveral additional remarks have occurred, which may not improperly be given in this place. For many of thefe we acknowledge ourfelves indebted to a fermon publifited by the reverend Mr Marfh, whofe refearch, learning, and critical accuracy, will be acknowledged by every reader of difcernment.
One of the flrongelt arguments that have occurred to us in fupport of the authenticity of the Pentateuch, and the infpiration of the writer, has already been given under the article Religios, $\wedge^{\circ}{ }^{14}$, E:c. which fee: But we fhall in this place prefent two arguncents of a different kind, which would be fufficient to prove at lealt the former of thefe conclufions. The ar. gne from the la suage and contents of the Morai: writirgs, and from the teftimony of the cther bocks of Scripture.

## S C K [ 78 t ]

Scripture. From the contents and langunge of the Pentateach: pro:ed by i.:-rsal evadeace,

NITr $\beta$. there arifes a very trong prefumption tha MIts was its author. Tl? very mode of writing in the fiur latt books dif-overs an author contemporary with the events which he relates; ev:ry defcription, both religious and nolitical, is a proof that the writer was prefent at each refpective feene; and the le iffative and hiftorical parts are fo interwoven with each other, that neither of them coald have been writte: hy a man who lived ia a later age. The account which is given in the o rk of Ex. odus of the conduct of Pharsoh ow ris the children of Ifrel, is fuch as might have been ex sited trom a writer who was not only acquainted wi h the country at large, but had frequent accefs to the court of its fovereizn: and the minute geographical defcription of the paffage through Arabia is fuch, as evuld have been given only by a man like Mofes, who had fpent 40 years in the land of Midian. The language i Felf is a proof of its high antiquity, which appears partly from the great fimplicity of the ftyle, and partly from the ufe of archaifms or antiquated expreffions, which in the days even of David and Solomon were obfolete (B). But the Ifrongelt argument that cain be produced to fhow that the Pentateuch was written by a man boin and educated in Egypt, is the uie of Egvptian words; worcis which never were, and never could have been, cred by a native of Palefline : and it is a remarka le circumffance. that the very fare thing which Moles had exprefled by a word that is pure Egyptian, Ifaiah, as might be expected from his birth and education, hus expreffed by a word that is purely Hehrew (c).

That Mofes was the author of the Pentat uch is proved alfo from the evidence of teltimony. TVe do not here quote the authority of Diodorus S:culas, of I.onginus, or Strabo, becaufe their informetion mult have been derived from the Jews. We fhall feek no authority but that of the fucceeding facred books themlelves, which bear internal evidence that they were written in different ages, and therefore could not be forged, unlefs we were to adopt the abfurd opinion that there was a fucceffion of impoftors among the Jews who united in the fame frans. The Jews were certainly belt cualified to judge of the authonticity of their own rooks. They could judge of the truth of the facts recorded, and they could have no intereft in adopting a forgery. Indeed, to fuppore a whole nation combined in committing a forgery, and that this combination hou!d cortinue for many hundred $y$-ars, would be the moit chimerical fuppofition that ever encesed into the mind of man. Yet we muft make this fun offion, if we reject he hitorical facts of the Oid Telfament. N one will deny that the Pentateuch exilied in the timn of Chrift and his apoflles; for they not only me tion it, but quate it. "This we admit," reply the adsocates for the hypothefis which we are now combating; "sut you cannot
therefure conclude that Moles was the author; for there Stripture. is reaton to belicre it was compuled by Ezra." But unforturately t it min of this oprnion, both Ezra and Netiemiah atcrive the book of the law to Mofes *. Ezra it 2. The Penateucn was in the polfellion of the Samari- $\because:{ }^{* 1 t}$. 4 . tans before the time of Ezra. 3. It exilled in the :1 j. 1 . reign of Am:ziah king of Jul..h, A.C. 859 yearst.t 2 Chron 4. It was in public ule in the reign of deno phat, Nw. 4. A. C. 912 ; fur that virtuous prince appointed Levitcs $=$ Kings and prietts who tausht in Judah, and had the book of the law of the Lord with them, and went about throsghout all the cities of Judah and taught the peonle $\ddagger$. 5. It is referred to by David in his dying z a Chron. admonitions to Solomon §. The fame royal bard makes svii. 5, 9 . many allufions to it in the book of Plalms, and lome- 1 Kings times quotes it *. There remains therefore only one * Comp. refource to thofe who contend that Niofes was not the falm uii. author, viz. that it was written in the period which 7, s, with elapfed between the age of Jothua and that of David. xxxiv, 6 But the whale hifory of the Jews from their lettle-in the oriment in Cansan to the building of the temple prefup-ginal, pofes that the book of the law was witten by Mofes. where the 6. We have latisfafory evidence that it exifted in the words are time of Jofhua. One piffige may be quoted where this farme. fact is flated. The Divine Being makics ufe of thefe words to Johua: " O:ly be thou itrong, and very comargeous, that thou mayelt obferve to do all according to the law which Míofes my fertant commanded thee ; turn not from it to the right hand or to the left, that theu mayel profper whither.oever thou goeft. This book of the law thall not depart out of thy mouth; but th u fhalt meditate therein day and right, that thou fohma maveft obferve to do according to all that is written 7,8 . vin, therein + ."

1. xsivi, 6 .

To the fregoing demonftration objections may beGeneral fttied. "We will admit the fusce of your arguments, iectio and grant that Mofes ačually wrote a work called the antweret. book of the law; but how can we be certain that it was the very work which is now current under his name? And umlefs you can thow this to be at leaft probable, your whole esidence is of no value." To illuftrate the force or weaknefs of this o jection, let us apply it to fome ai cient Greek autbor, and lee whether a claffic: $!$ fcholar would all wit io have reight. "It is true that the Creek writers ppeak of Htmer as an ancient and celebrated poet; it is true alo that they have quoted rom the works which they afcribe to him va ions paffe ges tiat we fir d at prefent in the llizd and Odyficy : yet faill there is a polfibility that the poems which were writ en by Homer, a id the fe which we call the Iliad and Ody Pr\% were totally dittinet prochetions." Now an adven e fur Gieck literature would revly to $t$ is objectin, $n^{\prime} t$ with a ferious anfiver, but with a Imile of contempt ; and he would think it beneath his diguity to fience an opponent who appeared to be deaf
(B) For inftance, mille, an: 7 Mucr, which are ufed in both genders by no other writer than Mofes. Sec

(c) F iallance, (nerbus wit: oi, inally and the lathenel inton milake), written by the
 cum, art. AXt 2r. ©HBI
 taun.:ed both o! the.c words by $\alpha$ z.

## S G R [ 782$]$ S G R

Su.n.un to the clearefi conviction. But fill more may be faid in defence of Mofes than in defence of Homer ; for the writings of the latter were not depofited in any temple or facred archive, in order to fecure them from the devaltations of time; whereas the copy of the book of the law, as written by Mofes, was intrufted to the priefts and the elders, preferved in the ark of the covenant, and read to the people every feventh year (D). Sufficient care therefore was taken not only for the prefervation of the original record, but that no fpurious production fhould be fubftituted in its ftead. And that no fpurious production ever has been fubflituted in the ftead of the original compolition of Mofes, appears from the evidence both of the Greek and the Samaritan Pentateuch. For as thefe agree with the Hebrev, except in fome tritling variations (E), to which every work is expofed by length of time, it is abfolutely certain that the five books which we now afcribe to Mofes are one and the fame work with that which was tranflated into Greek in the time of the Ptolemies, and, what is of ftill greater importance, with that which exifted in the time of Solomon. And as the Jews could have had no motive whatever, during that period which elapfed between the age of Jofhua and that of Solomon, for fubftituting a fpurious production inltead of the original as written by Mofes, and, even had they been inclined to attempt the impofture, would have been prevented by the care which had been taken by their lawgiver, we muft conclude that our prefent Pentateuch is the very identical work that was delivered by Mofes.

The pofitive evidence being now produced, we flall endeavour to anfwer fome particular objections that have been urged. But as moft of thefe occur in the book of Genefis, we fhall referve them for feparate examination, and fhall here only confider the objections peculiar to the laft four books. They may be comprifed under one head, viz. expreffions and paffages in thefe books which could not have been written by Moles. 1. The account of the death of Mofes, in the laft chapter of Deuteronomy, we allow muit have been added by fome fucceeding writer; but this can never prove that the book of Deuteronomy is fpurious. What is more common among ourfelves than to fee an account of the life and death of an author fubjoined to his works, without
informing us by whom the narrative was written? 2. It Scriptase has been objected, that Mofes always fpeaks of himfelf in the third perfon. This is the objection of foolilh ignorance, and therefore fcarcely deferves an anfwer. We dufpect that fuch perions have never read the claffics, particularly Ciefar's Commentaries, where the author uniformly peaks of himfelf in the third perfon, as every writer of correct tafte will do who reflects on the abfurdity of employing the pionoun of the firt perfon in a work intended to be read long after his death. (See Grammar, $\mathrm{N}^{\circ} 33$.) 3. As to the objection, that in fome places the text is defective, as in Exodus xv. 8. it is not directed againft the author, but againft fome tranfcriber; for what is wanting in the Hebrew is inferted in the Samaritan. 4. The only other objection that deferres notice is made from two paffages. It is faid in one place that the bed of Og is at Ramah to this day; and in another (Deut. iii. 14.), "Jair the fon of Manafieh took all the country of Argob unto the coalts of Gehmuri and Maacathi, and called them after his own name, Bafhan-havoth-jair, nnto this day." The laft claufe in both thefe paffages could not have been writien by Mofes, but it was probably placed in the margin by fome tranfcriber by way of explanation, and was afterwards by miftake inferted in the text. Whoever doubts the truth of this affertion may bave recourfe to the manufcripts of the Greek Teftament, and he will find that the fpurious additions in the texts of fome manufcripts are actually written in the margin of others ( F ).

That the Pentatcuch, therefore, at leaft the laft four books of it, was written by Mofes, we have very fatisfactory evidence; which, indeed, at the diftance of 3000 years is wonderful, and which cannot be affirmed of any profane hiftory written at a much later period.

The book of Genefis was evidently not written by a Authentiperfon who was contemporary with the facts which he ciry ot the records; for it contains the hilitory of 2369 years, a Gook of period comprehending almoft twice as many years as all the reft of the billorical books of the OId Teflament put together. Mofes has been acknowledged the author of this book by all the ancient Jews and Chriftians; but it has been matter of difpute from what fource he derived his
(D) " And Mofes wrote this law, and delivered it unto the priefts the fons of Levi, which bare the ark of the covenant of the Lord, and unto all the elders of Ifrael. And Mofes commanded them, faying, At the end of every feven years, in the folemnity of the year of releafe, in the feaft of tabernacles, when all Ifrael is come to appear before the Lord thy God, in the place which he flall choofe, thou fhalt read this law before all Ifrael in their heaving. And it came to pafs, when Mofes had miade an end of writing the words of this law in a book until they were finifhed, that Mofes commanded the Levites, which bare the ark of the covenant of the Lord, faying, Take this book of the law, and put it in the fide of the ark of the coveriant of the Lord your God." Deut.


(E) See the collation of the Hebrew and Samaritan Pentateuch, in the Gth vol, of the London Polyg/ot, p. 19. of the Animativerfiones Samaritice.
(F) To mention only two examples. 1. The common reading, I Cor. xvi. 2. is $\mu \Delta \alpha v \alpha \beta, \beta \alpha \sigma \alpha y$; but the Codex Petavian. 3. has тay zugaeky in the margin; asd in one of the manufcripts which Beza ufed, this marginal addition bas heen obtruded in the tevt. See his note on this paffage. 2. Another inftance is, 1 John ii. 27. where the g wuthe reading is ysioux; but TVetitein quotes two mamufcripts, in which arsepse is written in the margin; and $t / 0 \mathrm{~m}$ re inal reading has found it way not only into the Codes Covelli 2 , but into the Contic and Ethiopic rerf

## $\mathrm{S} \mathrm{C} R \quad\left[\begin{array}{lll}783\end{array} \quad \mathrm{~S}\right.$ C R

Scri *ure. his materials; fome affirming that all the facts were revealed by infpiration, and others maintaining that he procured them from tradition.

Some who have looked on themfelves as profound philofophers, have rejected many parts of the book of Genefis as fabulous and abfurd: but it cannot be the wifdom of philofophy, but the vanity of ignorance, that could leat to luch on opinion. In fact, the book of Genelis aff sds a key to many dificulties in philofophy which camol otherwi.e be explained. It has bean fuppoied that the divernties among manhind prove that they ase not uefcended from one pair ; but it has been fully the in that all thele diverfities may be accounted for from natural caules. It has been reckoned a great diliiculty to explain how fofill fhells were introduced into the bowels of the earth ; but the dclage explains this fact better than all the romantic theories of philolophers. It is impoilible to account for the origin of fuch a variety of languages in a more fatisfactory manner than is done in the account of the confufion of tongues which took place at Babcl. It would be no eafy matter to thew why the fea of Sudom is fo d fferent from evcry other fea on the globe which has yet been explored, if we had not poffeifed the fcriptural account of the miraculous defruction of Sodom and Gomorrah. It is faturated with bitumen and falt, and contains no fifhes. Thefe are very fingular facts, which have been fully eftablifhed by late travellers. The book of Genefis, too, has been treated with contempt, becasfe it makes the world Iefs ancient than is necelfary to firport the theories of modern philofophers, and becaufe it is difficult to reconcile the chronologies of feveral nations with the opinion that the world is not above 6000 or 7200 years old. The Cbaldeans, in the time of Ci cero, reckoned up 470,000 years. The Egrptians pretend that they have records extending 50,000 years back; and the Hindoos go beyond all bounds of probability, carrying back their chronology, according to Haihed, more than $7,020,000$ of years.

An attempt has been made by the unfortunate M.

13
Mofaic
chronology sirdicated.

Bailly, once mayor of Paris, to reconcile thefe magnified calculations with the chronology of the Septuagint, which is jufly preferred to the Hebrew. (See Sepruagint.) He informs us, that the Hindoos, as well as the Chaldeans and Egyptians, had years of arbitrary determination. They had months of $1 ;$ days, and years of 60 days, or two months. A mosth is a night and day of the patriarchs ; a year is a night and day of the gods; four thoufand years of the gods, are as many hundred years of men. By attention to fuch modes of computation, the age of the world will be found very nearly the fame in the writings of Mofes, and in the calculations and traditions of the Bramins. With thele alfo we have a remarkable coincidence with the Perfian c'lronology. Bailly has eftablinhed thefe remarkable epochas from the Creation to the Deluge.

| The Septuagint gives | - | 2256 years. |
| :--- | :--- | :--- |
| The Chaldeans |  | 2222 |
| The Eggptians | - | 2340 |
| The Perfians | - | 2000 |
| The Hindoos | - | 2000 |
| The Chinefe | - | - |
| 2300 |  |  |

The fame author has alfo fhewn the fingular coinci-
dence of the age of the world as given by four diflinet Scri; ure. and dillantly fituated people.

| The ancient Egyp iat s | $55+4$ year.. |  |
| :--- | :--- | :--- |
| The Hindoos | $55=2$ |  |
| The Perlians |  | 5501 |
| The Jews, according to Tofephus, | 5555 |  |

Having made thefe few remarks, to fhew that the facls recorded in Genefis are not inconliftent with truth, we fhall now, by a few obfervations, eitablith the evidence, from teltimony, that MUles was the author, and anfiwer the objections that feem ftrongen.

There arifis a great probability, from the book of Genefis itfelf, that the author lived near the time of Jofeph; for as we adrance towards the end of that book, the facts gradually become more minute. The materials of the antediluvian hillory are vecy feanty. The account of Abraham is more complete ; but the hiftory of Jacob and his family is fiill more fully detailed. This is indeed the cafe with every hitory. In the early part, the relation is very fhort and general; but when the hiftorian approaches his own time, his materials accumulate. It is certain, too, that the book of Genefis muft have been written before the real of the Pentateuch; for the allufions in the latit four books to the hiftory of Abrnham, of Ifac, and Jacob, are very frequent. The fimplicity of the fyle fhows it to be one of the molt ancient of the lacred books; and perhaps its fimilarity to the ftyle of Mures would determine a critic to alcribe it to him. It will be allowed that no man was better qualified than Mofes to compoie the hittory of his anceltors. He was learned in all the widdom of the Egyptians, the molt enlightened nation of his time, and he had the belt opportunities of obtaining accurate information. The thort account of the antediluvian world could eafily be remembered by Abraham, who might obtain it from Shem, who was his contemporary. Io Shem it might be conveyed by Methufelah, who was $34^{\circ}$ years old when Adam died. From Abraham to Moles, the interval was leis than 400 years. The fplendid promifes made to that patriarch would crrtainly be carefully communicated to each gencratio:1, with the concomitant facts: and thus the liilory might be conveyed to Mofes by the moft diftinguiflied pertons. The accounts refpecting Jacob and his fon Joteph might be given to Mofes by his grandfalher Kohath, who mult have been born long before the defcent into Egypt ; and Kohath might have heard all the facts refpecting Abraham and Ifaac from Jacob himfelf. Thus we can eafily point out how Mofes might derive the materials of the book of Genefis, and efpecially of : laft 38 chapters, from the moit authentic fource.

It will now be neceffary to confider very flortly the Objections objections which have been fuppoled to prove that Gene- to the aufis could not have been written by Mofes. I. It is ob-thenticity jected, that the author of the firt chapters of Genefis of the book muft have lived in Mefopotamia, as he difeovers a oi:lated. knowledge of the rivers that watered Paradife, of the cities Babylon, Erech, Refen, and Calneh; of the gold of Pifon; of the bdellium and onyx Itone. But if he could not derive this knowledge from the nifdom of the Egyptians, which is far foom being improbablc, he might furely obtain it by tradition from Abraham, who was born and brought up beyond the Euphrates. 2. In Genefis
3.10 . Genefis sir. 4 . it is faid, Abraham purfued the four

## * Judzer

bati. xyiii.
22. coniederate kings to Dan, yet that name was not given till after the conquaft of Paleftine *. We anfwer, this mis ht be inferted by a tranicriber. Dut fuch a fuppofition is not neceflary; for though we are told in the book of ludges that a city o: igin ly called Laifh received then the name of Dan, this does not prove that Laifh was the fame city with the Dan which is mentioned in Genefis. The fame anfiver may be given to the objection which is brought from Genefis $\times x \times v .21$, where the tower of Edar is mentioned, which the objectors fay was the name of a tower over one of the gates of Jerufalem. But the tower of Edar fignifies the tower of the flocks, which in the paftoral countty of Canaan might be a very common name. 3. The moft formidable objection is derived from thele two pafiages, Gen. xii. 6. "And the Canaanite was then in the land." Gen. xxxvi. 31. "Thefe are the kings that reigned over the land of Edom, before there reigned ary king over the children of Ifrael," Now, it is certain that neither of thefe paffages could be written by Mofes. We allow they were added by a later writer; but this circumitance cannot invalidate the evidence which has been already produced. It does not prove that Mofes was not the author of the book of Genefis, but only that the book of Genefis has received two alterations fince his death.

According to Rivet, our Saviour and his Apoftles have cied 27 paftages verbatim from the book of Ge-

The bok of Exodus.

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2 C. 16
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17
Numis tre
${ }_{1} \mathrm{Nim}^{1}$
sxi. nefis, and have made 38 allufions to the fenfe.
The book of Exodus contains the hiftory of the If. raelites for about 145 years. It gives an account of the flavery of the Ifraelites in Egypt; of the miracles by which they were delivered; of their panlige through the Ricd fea, and journey through the wildernefs; of the foIemn prumulgation of the Decalogue on Mount Sinai, and of the building and furniture of the Tabernacle. This book is cited by David, by Daniel, and other facred writers. Twenty-five paflages are quoted by our Saviour and his apofles in exprefs words, and they make 19 allufions to the fenfe.
The book of Leviticus contains the hiffory of the Ifraelites for one month. It confifts chiefly of laws. Indsed, properly fpeaking, it is the code of the Jewifh ceremonial and political laws, It defcribes the confecration of Aaron and his fons, the daring impicty and exemplary puniflhment of Nadab and Abilius. It reveals allo fornc predictions refpecting the punifhment of the Ifraelites in cafe of apoftacy; and contains an affurance that every fixto year fhould produce abundance to fupport them during the feventh of $\int$. bbatical year. This brok is quotet as the production of Mofes in feveral books of's ripture *.

The book of Numbers comprehends the hiftory of the Ifraclites for a pe.iod of about 38 years, reckoning from the fir ${ }^{2}$ day of the fecond month after their departure from E Eypt. It cont:ins , marcount of two numberings of the people; the firlt in the heginning of the fecoad year of their emigration, the fecond in the plains of Mesb towards the conclufion of thicir joarney in the willer, efst. It defcribes the ceremonies employed at the coufecration of the tabernacle, gives an exact journal of the marche and enc npments of the Ifizelites, relas the ap nin'ment of th 7o elders, the miraculous cure (e-formet be the braz a lerpent, and the mifonduct of Mufes when he was commanded to bring water
out of the rock. There is allo added an account of the Scripture. death of Aaron, of the conquelt of Sihon and Og , and the Itory of Balaan, wilh his celebrated prophecy conceming the Mefliah $\delta$.

The bock of Numbers is quoted as the work of Nofes $\times x=1 \%: 17$. in feveral parts of scriptore *.

The book of Deutcronomy comprehends a period of *J.fiua nearly two months. It confiits of an interelling addeefs ${ }_{2}$ i.hron. to the Ifracites, in which Mofes recals to their remem-xis. it. brance the many inflances of dwine favour which they was. :had experienced, and reproaches them for their ingrati- Ezel.. $x$ x. tude. He lays before them, in a compendious form, vint 27 the lews which he had formerly delivered, and makes xii. 5. fome explanatory additions. This was the more necel-J hin vi. fary, becaufe the lifaelites, to whom they had been ori-31. 15. 362 ginally promulgated, and who had feen the miracles in 18 Deutero. Egypt, ut the Red lea, and Mount Sinai, had died in nomy. the wildernefs. The divine origin of thele laws, and the miracles by which they were fanctioned, muit already have been well known to them; yet a folemn recapitulation of thele by the man who had miraculoufly fed the prefent generation from their infancy, who by the lifting up of his hands had procured them victory in the day of battle, and who was going to leave the world to give an account of his conduct to the God of liael, could not but make a deep and lafting impreffion on the minds of all who heard him. He inculcates thefe laws by the molt powerful motives. He prefents before them the moft animating rewards, and denounces the fevereft punilhments againft the rebellious. The prophecies of Mofes towards the end of this book, concerning the fate of the Jews, their difperfion and calamities, the conquett of Jerufalem by the Romans, the mi eries of the befieged, and the prefent ffate of the Jewifh nation, cannot be * Matth, read without aftonifhment. They are perfpicuous and iv. .e: minute, and have been litera!ly accomplithed. This book is quoted as the production of Mofes by cati.iin. 22. Chritt and his apoftles *.

Gal. ı1. 13.
4. The hiftorical books are 12 in number, Jofhua, the fuftoJudges, Ruth, Samuel I. and II. Kings I. and II. Chro- iic bouks, nicles, Ezra, Nehemiah, Ether. Thefe, if confidered diffinctiy from the Pentateuch, and the writings more properly ftyled prophetical, contain a compendium of the Jewifh hiftory from the death of Mofer, A. MI. 2552 , to the reformation eftablifhed by Nehemiah after the retorn from the captivity, A. M. 3595 , comprehending a period of 1043 years.

To enable us to difcover the authors of theie books, wc have no guide to conduct us but conjecture, internal cvidence, or the authority of the modern Jews. From the frequent references in Scripture, and from the teftimony of Jofephus, it appears that the Jews were in poffeffion of many hiftorical records which might bave thrown much light on this fobject if they had itill been preferved. But during the calamities which befel that infatuated nation in their wars with the Romans, and the difperfion which followed, thefe writings have perihhed. But though we can produce no teftimony ${ }^{20}$ more ancient than the age of our Saviour to authenti-st the fuilca e the hiftorical books, yet there are fome facts re-ctt creath fpecting the mode of their prefervation which cutitle then to credit. The very circumflance iffelf, that the Jews have preferved them in the facted $v$ lume to this day, while their other ancient hooks have hoen loft, is a proof that they confidered them as the genuine re-

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Scripture conds of their nation. Jofephus $t$, whofe authority is of great importance, informs us, that it was the pecu.

+ Contra Apion, (ib. 1.

21
Authenticity of the Hebrew - ecords. liar province of the prophets and priefts to conmit to writing the annals of the nation, and tranfmit them to polterity. That theie might be faithfuiiv preferved, the facerdotal function was made hereditary, and the greateft care was taken to prevent intermarriages either with foreigners or with the other tribes. No man could officiate as a prieft who could not prove his defcent in a right line by unquettionable evidence $f$. Regiters were kept in Jerufalem, which at the end of every war were regularly revifed by the furviving priefts; and new ones were compofed. As a proof that this has been faithfully performed, Jofephus adds, that the names of all the devilh priets, in an uninterrupted fuccefion from father to fon, had been regitered for 2000 years; that is, from the time of $\Lambda$ aron to the age of Jolephus.

The national records were not allowed to be written by any man who might think himfelf fit for the office; and if a prieft fallified them, he was excluded from the altar and depofed from his office. Thus we are affured that the Jewih records were committed to the charge of the priefts; and fince they may be confidered as the fame family from Aaron to the Babylonith captivity and downwards, the fame credit is due to them that would be due to family records, which by antiquarians are efteemed the moft authentic fources of information.

Of the 22 books which Jofephus reckoned himfelf bound to believe, the hiftorical books from the death of Mofes to the reign of Artaxerxes, he informs us, were written by contemporary prophets. It appears, then, that the prophets were the compofers, and the priefts the bereditary keepers, of the national records. Thus, the beft provifion poffible was made that they fhould be written accurately, and preferved uncorrupted. The principal office of thefe prophets was to influct the people in their duty to God, and occafionally to communicate the predictions of future events. For this purpofe they were educated in the fchools of the prophets, or in academies where facred learning was taught. The prophets were therefore the learned men of their time, and confequently were beft qualifed for the office of hiftorians. It may be objected, that the prophets, in concert with the prielts, might have forged any writings they pleafed. But before we fufpect that they have done fo in the hiftorical books of the Old Teftament, we muft find out fome motive which could induce them to commit fo daring a crime. But this is impofible. No encomiums are made either on the prophets or the priefts; no adulation to the reigning monarch appears, nor is the favour of the populace courted. The faults of all ranks are delineated without referve. Indeed there is no hifory extant that has more the appearance of impartiality. We are prefented with a fimple detail of facts, and are left to difcover the motives and intentions of the feveral characters; and when a charafter is drawn, it is done in a few words, without exaggerating the vices or amplifying the virtues.

It is of no great confequence, therefore, whether we can afcertair the authors of the different books or not.

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From Jofephus we know that they cxifted in his time; Scripture. and from his account of the manner in which they neie preferved we are aftured they were not in $\quad$... . . being corrupted. They exilled allo when tie septuagint tranflation was made. Frequent refercnces are rade to them in the writings of the later prophets; fometimes the fame facts are related in detail. In fhort, there is fuch a coincidence between the luftorical books and the writings of thofe prophets who were contemporary, that it is impofibie to futpofe the l.tter true without receiving the former.

Indeed, to fuppofe that the Jews could have received and preferved with fuch care for fo many hund:ed years falfe records, which it mult have been in the power of every perfon to difprove, and which at the fame time do fo little credit to the character of their nation, is to fuppofe one of the greateft abfurdities in the world; it is to fappele that a whole nation could act contrary to all thole principles which have always predominated in the human mind, and which muf always predominate till human nature undergo a total revolution.

The book which inmediately foilows the Pentateuch Jofnua. has bcen generally afcribed to Johua the fucceffor of Mofes. It contains, however, fome things which muft have been inferted after the death of Joflua. It is neceffary to remark, that there is fome accidental derangement in the order of the chapters of this book, which was probably occainoned by the ancient mode of fixing together a number of rolls. If clironologically placad, they fhould be read thus, if chapter to the 10 th verfe, then the 2 d chapter; then from the 1 sth verfe to the end of the 1 it chapter; aftersards thould follow the vi. vii. viii. ix. x. and xi. chapters; then the xxii.; and laitly the xii. and xiii. chapters to the 24 th verie of the latter.

The facts mentioned in this book are reforred to by many of the facred writers $\$$. In the firt book of $\$$ : Chron Kings xvi. 34 . the words of Joflua are faid to be the ${ }^{\text {ii. } 7 .-\mathrm{xii} \text {. }}$ words of God. See Josh:A.

By whom the book of Judges was written is uncer-Ifa. xxvui. tain; but as it contains the hiftory of the Jewilh repub- 2 t. ; Acts lic for 317 years, the materials muft have been furnim-vii. $45 \cdot$; ed by different perfons. The book, however, feems to Heb. xi. be the compofition of one individual (G), who lived af- James ii. ter the regal government was eftablithed *, but before the 25.28 .; acceflion of David; for it is faid in the 21 ft verfe of Ecclus. xivithe ift chapter, that the Jebufites were ftill in Jerufa- A.; 1 Mac. lem ; who, we know, were difpoffeffed of that city early ${ }^{\text {ii. } 5.6 .}$ in the reign of David + . We have reafon, therefore, to Judges. afcribe this book to Samuel.

* Jud. six.

The hifory of this book may be divided into two parts; ${ }^{1,} ;{ }_{2} \times 2 \mathrm{~S}_{3} .25$. the firit contains an account of the judges from Othniel ${ }_{\mathrm{v}, 6,8 \text {. }}+\mathrm{Sam}$. to Samfon, ending at the I 6 th chap. The fecond part relates feveral remarkable tranfactions which occurred foon after the death of Jofhua; but are added to the end of the book, that they might not interrupt the courfe of the hiftory.

The book of Ruth is a kind of fupplement to the Ruth. ${ }^{24}$ book of Judges, and an introduction to the hillory of 5 G David,
(G) In fupport of this opinion, it may be obferved that the author, chap. ii, 10 , \&ic. lays before us the contents of the book.

Scripture. D.rid, as it is related in the books of Sanmuel. Since tbe genealogy which it contains defcends to David, it muft have been written after the birth of that prince, but not at any confiderable time after it ; for the hiflory of Boaz and Ruth, the great-grandfather and great-grandmother of David, could not be remembered above two or three generations. As the elder brothers of David and their fons are omitted, and none of his own children are mentioned in the genealogy, it is evident that the book was compofed in honour of the Hebrew monarch, after he was anointed king by Samuel, and before any of his children were born ; and confequently in the reign of Saul. The Jews afcribe it to Samuel; and indeed there is no perfon of that age to whom it may be attributed with more propriety. We are informed (I Sam. x. 25.) that Samuel was a writer, and are affured that no perlon in the reign of Saul was fo well acquainted with the fplendid profpects of David as the prophet Samuel.

The Greeks denominate the books of Samuel, which follow next in order, The Books of Kingdoms; and the Latins, The Books of Kings I. and II. Anciently there were but two books of Kings; the firft was the troo books of Samuel, and the fecond was what we now call the two books of Kings. According to the prefent divifion, thefe two books are four, viz. the firt and fecond books of Samwel, and the firft an fecond books of Kings.

Concerning the author of the two books of Samuel there are different opinions. Some think that Samuel wrote only twenty or twenty-four chapters of the firft book, and that the hiffory was continued by Nathan and Gad. This opinion ti:ey ground on the following paffage in Chromicles $\ddagger$, "Nuve the acts of David the king, firlt and laft, beloid they are written in the book of Samuel the feer, and in the book of Nathan the prophe:, and G.d the feer." Others tlink they were compiled by Ezra from ancient records; but it is evident that the books of Simuel were written before the bsoks of Kings and Chrunicies; for on comparifon it vill be fourd, that in the laft mentioned books many circumfances are take: from the former. The firft book carries down the hii..ery of the Ifraelites from the birth of Samuel to the fatal ba:tle of Gilioa, comprehending a period of a 80 years. The fecond relates the hiftory of David from his ficceffion to the throne of Ifrael till wihhin a year or two of his death, containing 40 ye:rs. There are two beautiful paffages in thefc books which every man of lentiment and talle muft feel and adniire, the lamentation or elegy on Saul and Jonathan, aad the parable of Nathan. The impartiality of the hiforian is fully attelted by the candour and freedom with which the actions of Suul and David are relaced. There are fome remarks interfperfed which were probably acded by Ezra.

When the two books of Kings were written, or by whom they were compiled, is uncertin. Some have fuppofed that Dastid. 5 : man, and Hczekialh, wrote the hilory of their own times. (Others have lieen of opinion that the prophets, viz. Ifaiah, Joremiolk, Gad, and Nathan, tach of them wn te the hiftory of the reign in whith he lived. Bu it is gener lly believed that Ezra $\because$ rote thofe two bonks, ard pulblitied them in the form in which we have them at prefent. There can be no deubt that the proph:s dict :p the liveroof the kings
who reigned in their times; for the names and uritings Scriptare. of thofe prophets are frequently mentioned, and cited. Still, however, it is evident that the two books of Kings are but an abridgement of a larger work, the fubftance of which is contained in the books before us. In fupport of the opinion that Ezra is the author of thefe books, it is faid, That in the time of the penman, the ten tribes were captives in Affyria, whither they had been carried as a punifhment for their fins: That in the fecond of thefe books the author makes fome reflections on the calamities of Ifrael and Judah, which demonftrate that he lived after that erent. But to this it is objected, That the author of thefe books expreffes himfelf throughout as a cotemporary, and as one would have done who had been an eye and ear witnefs of what he related. To this objection it is anfwered, That Ezra compiled thefe books from the prophetic writings which he had in his poffeffion; that he copied them exactly, narrating the facts in order as they happened, and interfperfed in his hifory fome reflections and remarks arifing from the fubjeets which he handled.

The firft book comprifes a period of 126 vears, from the death of David to that of Jehofhaphat. The fecond book records the tranfactions of many kings of Judah and Ifrael for about 300 years, from the death of Jehofhaphat to the deffruction of Jerufalem and the temple, A. M. 3416, A. C. $5^{88}$.

The Hebrews ftyle the two books of Chronicles De- of chro. beri Imim $\oint$, i. e. Words of days, jouruals or diaries, in niclec. allufion to thofe ancient journals which appear to have 1000
 Paralipomena ${ }^{*}$, which fignifies things omitted; as if *acates theie two books were a kind of fupplement to inform $\$ \approx \mu, \kappa_{k}$. us what had been omitted or too much abridged in the books of Kings. The two books of Chronicles contain indeed feveral particulars which are not to be met with in the other books of fcripture: but it is not therefore to be fuppofed that they are the records of the kings of Judah and lfrael, fo often referred to in the books of Kings. Thofe ancient regifters were apparently much more copious than the books before us; and the compiler of the books of Chronicles often refers to, and makes long extrafts from, them.

Some fuppofe that the author of thefe two books was the fame with that of the two books of Kings. The Jews fay that they were written by Ezra, after the return from the captivity, affilted by Zechariah and Haggai, who were then alive. But events are mentioned in them of fo late a date as to fhow that he could not have written them in their prefent form ; and there is another objection to his being their author, which is litthe lefs forcible: between the books of Kings and Chronicles there are numerous rariations both in dait- and facts, which could not have happened if Esra had been the anthor of them, or indeed it they had been the work of anv one perfon.

The books of Chronicles are not to be regarded mercly as an abridgement of former hiftories with fome ufeful additions, but as books written with a particular view ; which feemis to have been to furnifh a genealogical regifter of the twelve tribes, deduced fiom the erticft timee, in order to point cut thofe diftiv:Cticns which were neceflary to dicriminate the mixed molritude which retwrned from Bet ylon; to afcertain the linage of Ju-

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dah; and to re-eftabliin on their ancient footing the pretenfious and functions of each individual tribe.
The book of Ezra, and alfo that of Nehemiah, are attributed by the ancients to the former of there prophets; and they called them the 1 it and ad books of Efdras; which title is till kept up by the Latin church. It is indeed highly probable that the former of thefe books, which compriles the hiftory of the Jerrs from the time that Cyrus made the decree for their return until the twentieth year of Artaxerves Longimanus (which was about 100 years, or as others think 79 years), was all compofed by Ezra, except the firt fix chapters, which contain an account of the firlt return of the Jews on the decree of Cyrus; whereas Ezra did not return till the time of Artaxerxes. It is of this fecond retum therefore that he writes the account; and adding it to the other, which he found compoled to his hand, he made it a comprete hiftory ot the Jewwh refluration.

This book is written in Chaldce from chap. iv. S. to chap. vii. 27. As this part of the works cli fiy contains letters, converfations, and decrees expreffed in that language, the fidelity of the hiftorian has probably induced him to take down the very words which were ufed. The people, too, had been accuftomed to the Chaldee during the captivity, and probably underflood it oe ter than Hebrew ; for it appears from Nehemiah's account, chap. viii. 2, 8, that all could not underfand the law.

The book of Nehemiah, as has been already obferved. 'hears, in the Latin bibles, the title of the /econd bsok of E/aras; the ancient canons likewife give it the fame rame, becauie, perhaps, it was confidered as a fequel to the book of Ezra. In the Hebrew bibles it has the name of Neheminh prefixed to it; which name is retained in the Englifh bible. But though that clief is by the writer of the fecond bock of Maccabees affirmed to have been the author of it, there cannot, we think, be a doubs, either that it was written at a later period, or had additions made to it after Nehemiah's death.

With the book of Nehemish the hilory of the Old Teftament concludes. This is fuppofed to have taken place about A. AI. 3574 , A. C. 434. But Prideaux
with more probability has fixed it at A. M. 3595 . Nehmitah.

It is uncertain who was the author of the book of of Einker. Ether. Clement of Alexandria, and many commentaturs, have alci bed it to Mordecai ; and the book itfelf: feems to favour this opinion; for we are told in chap. ix. 20. that "Mordecai wrote thefe things." Oihers have fuppoled that Ezra was the author ; but the more probable opinion of the Talmudils is, that the great fynagogue (fee SyNacecuil), to perpetuate the memory of the deliverance of the Jess, from the confire cy of Haman, and to account for the origin of the feal ${ }^{2}$ of Purim, ordered this book to be conipoled, very likely of materials left by Mordecai, and afterwards approved and admitted it into the facred cason. The time when the events which it rel:te happened, is fuppofed by fome to have been in the reign of Artaxerxes Longimanus, and by others in that of Darius the fon of Hyftafues, called by the facred penman -Hiafuerus.

Concerning the author of the book of Job there are of ${ }^{27}$ many different ooinions. Some have fuppofed that Job himelf wrote it in Syriac or Arab.c, and that it was afterwards tranfiated by Mofes. Others have thought that Eliinu wrote it ; and by others it is afcribed to Mofes, to Solomon, to Ifaiah, and to Ezra. To give even an ajriogement of the arguments brought in fupport of the?c varivus opinions would fill a volume, and at latt lease the reader in his prefent uncertainty. He who has leifure and inclination to weigh them may fludy the fecond fection of the fixth book of Warburton's Divine Legation of Mofes, together with the fe-- eal works there referred to; but the queftion at iffue is of very little importance to us. The book of .lob, by whomfoever it was written, and whether it be a reai hiflory, or a dramatical poem founded on hiffory, has been always efteemed a portion of canonical fcripture, and is one of the moft fablime compofitions in the facred volume.

The book of Job appears to fiand fingle and unparalleled in the facred volume. It feems to have little connection with the other writings of the Hebrews, and no relation whatever to the affirs of the Ifraelites, The feene is laid in Idumaz ( $H$ ) ; the hiftory of an in-
habitant
(H) "The information which the learned have endeavoured to collect from the writings and geography of the Greeks concerning the country and refidence of Job and his friends, appears to me (fays Dr Lowth) to very ir:conclufive, that I am inclined to take a quite different method for the folution of this queftion, by applying folcly to the Sacred Writings: the hints with which they have furnihed me towards the illu.'1ation of this fubject, I mall explain as briefly as pofible.
"The land of $U_{z}$, or Gnutz, is evidently Idumaca, as appears from Lam. iv. 21. Ǔ was the grandfon of Scir the Horite, Gen. xxxvi. 20, 21, 28. 1 Chron. i. 38,42 . Seir inha'ited that mountainous tract which was called by his name antecedent to the time of Abraham; but his pofterity being expelled. it was occupied by the Idumæans: Gon. xiv. 6. Deut. ii. 12. Two other men are mentioned of the name l/z; one the grandfon of Shem, the other the fon of Nachor, the brother of Absh m; but whether any difrict was called after their name is not clear. Idumeea is a part of Arabia Petrea, fituated on the fouthern extremity of the tribe of Judah: Numb. xxxiv. 3. Jofh. xv. 1, 21. The land of Uz therefore appears to have been between Egypt and Phililia, Jer. xxv. 20. where the order of the places feems to have l.een accurately obferved in reviewing the diffeent nations from Egvpt to Babylon; and the fame people feem avain to $b$ =deferibed in exaetly the fam. fituations, Jer, xlvi, -l.
"Children of the Eaf, or Ecifern people, feem to have been the general appellation for that min led race of people (as they are called, Jer. xxv. 20.) who inha ied b-tween Egyl and the Euphrates, bordering upon Judea from the fou'h to the eaft ; th.e Idumieans, the Amalekites, the Midianite, the Moe bites, the Ammonites. See Judges vi. 3. and Ifa. xi. 14. Of thefe the Idumæons and Amalekites cetlain'y poffeffed the fouthern parts. See Numb. xxxiv. 3. xiv. 29. I Sam, xxvii. 8, 12. This app-ars to be the true fats of the cafe: The whole region be.

Scripture. habiant of that country is the bafis of the narrative; - the characters who fpeak are Idumæans, or at leaft Arabians of the adjacent country, all originally of the race of Abraham. The language is pure Hebrew, although the author appears to be an Idumæan; for it is not inurobable that all the pofterity of Abraham, Ifraclites, Idumeans, and Arabians, whether of the family of Keturah or lithmael, fpoke for a confiderable length of time one common language. That the Idumæans, however, and the Temanites in particular, were eminent for the reputation of wildom, appears by the teflimony of the + Jer, xhi: prophets Jeremiah and Obadialı + : Baruch alfo partiOt. \&.
pounders) of fables, and fearchers out of underftand- Scripture. ing $\ddagger$."

The principal perfonage in this poem is Job; and in Baruch
his character is meant to be exhibited (as far as is con- iii. 22, 23 . filtent with human infirmity) an example of perfect The cha virtue. This is intimated in the argument or intro- racter of duction, but is ftill more eminently difplayed by his Jok.
own actions and fentiments. He is holy, derout, and molt pioufly and reverently impreffed with the facred awe of his divine Creator ; he is alfo upright, and confcious of his own integrity; he is patient of evil, and yet very remote from that infenfibility or rather ftupidity to which the Stoic fchool pretended. Oppreffed therefore
tween Egypt and Euphrates was called the Eaft, at firft in refpect to Egypt (where the learned Jof. Mede thinks the lfraelites acquired this mode of fpeaking. Mede's Works, p. 580.), and afterwards abfolutely and without any relation to fituation or circumftances. Abraham is faid to have fent the fons of his concubines, Hagar and Keturah, "eaftward, to the country which is commonly called the Eaft," Gen. xxv. 6. where the name of the region feems to have been derived from the fame fituation. Solomon is reported "to have excelled in wifdom all the Eaftern people, and all Egypt," I Kings iv. 30 .; that is, all the neighbouring people on that quarter: for there were people beyond the boundaries of Egypt, and bordering on the fouth of Judea, who were famous for wifdom, namely, the Idumæans (fee Jer. xlix. $7 . \mathrm{Ob} .8$. ), to whom we may well believe this paffage might have fome relation. Thus Jehovah addreffes the Babylonians; "Arife, afcend unto Kedar, and lay wafte the children of the Eaft," (Jer, xlix. 28). notwithftanding thefe were really fituated to the weft of Babylon. Although Job, therefore, be accounted one of the orientals, it by no means follows that his refidence muft be in Arabia Deferta.
"Eliphaz the Temanite was the fon of Efau, and Teman the fon of Eliphaz, (Gen. xxxvi. Io, ri.). The Eliphaz of Job was without a doubt of this race. Teman is certainly a city of Idumaa, (Jer. xlix. 7, 20. Ezek. xxv. 13. Amos i. 11, 12. Ob. 8, 9.).
"Bildad the Shishite: Shuah was one of the fons of Abraham by Keturah, whofe pofterity were numbered among the people of the Eaft, and his fituation was probably contiguous to that of his brother Midian, and of his nephews Shebah and Dedan, (fee Gen. xxv. 2, and 3.). Dedan is a city of Idumæa (ler. xlix. 8.), and feems to have been fituated on the eaftern fide, as Teman was on the weft, (Ezek. xxv. 13.). From Sheba originated the Sabrans in the paffage from Arabia Felix to the Red Sea : Sheba is united to Midian (Ifa. 1x. 6.) ; it is in the fame region however with Midian, and not far from Mount Horeb, (Exod. ii. 15. iii. 1.).
" Zophar the Naamathite: among the cities which by lot fell to the tribe of Judah, in the neighbourhood of Idumæa, Naama is enumerated, (Jofh. xv. 21, 4r.). Nor does this name elfewhere occur; this probably was the country of Zophar.
"Elilut the Buzite: Buz occurs but once as the name of a place or country (Jer. xxv. 23.), where it is mentioned along with Dedan and Thema: Dedan, as was juft now demonftrated, is a city of Idumæa; Thema belorged to the children of Ifhmael, who are faid to have irhabited from Havilah, even to Shur, which is in the diftict of Egypt, (Gen. xxv. 15. 18.). Sanl, however, is faid to have fmitten the Amalekites from Havilah even to Shur, which is in the diffrict of Egypt, (I Sam. xv. 7.). Havilah cannot, therefore, te very far from the boundaries of the Amalekites; but the Amalekites never exceeded the boundaries of Arabia Petraa. (See Reland Palaftin. lib. i. c. 14.). Thema, therefore, lay fomewhere between Havilah and the defert of Shur, to the fouthward of Judea. Thema is alfo mentioned in connection with Sheba, (Job vi. 19.).
"Upon a fair review of thefe facts, I think we may venture to conclude, ftill with that modefty which fuch a queftion demands, that Job was an inhabitant of Arabia Petraa, as well as his friends, or at leaft of that neighbourhood. To this folution one objection may be raifed: it may be afked, How the Chaldeans, who lived on the borders of the Euphrates, could make depredations on the camels of Job, who lived in Idumma at fo great a diffance? Tlis too is thought a fufficient caufe for affigning Job a fituation in Arabia Deferta, and not far from the Euphrates. But what frould prevent the Chaldeans, as well as the Sabeans, a people addicted to rapine, and roving about at immenfe diffances for the fake of plunder, from wandering through thefe defencelefs regions, which were divided into tribes and families rather than into tations, and pervading from Euphrates even to Egypt ? Firther, I would afk on the other hand, whether it be prolable that all the friends of Job who lived in ldumaza ard iss neightourhood, thould inftantly be informed of all that could happen to Job in the defert of Arabia as.d on the confines of Chaldea, and immediately repair thither? Or whether it be reafonable to think, that, fome of them being inhahitants of Arabia Deferta, it flould be concerted among them to meet at the refidence of Job; fince it is evident, that Eii haz lived at Theman, in the extreme parts of Idumea? With refpect to the Aifitas of Ptolemy (for fo it er, and ront Alufias) it has no agreement, not fo much as in a fingle letter, with the Hebrew Ginutz ' ' $X X$ inceed call that country by the name Aufitiáa, but they defcribe it as fituated in Idumæa; al os they a count Job limfelf an Idumean, and a delcendant of Efau." See the Appendix of the LXX to the book of Job, and Hyde Not. in Periwzol. chap. xi. Lowth wa Hebrew Poetry.

Scripture. therefore with unparalleled misfortunes, he laments his milery, and even wifhes a releafe by death; in other words, he obeys and gives place to the dictates of nature. Irritated, however, by the unjuft infinuations and the fevere reproaches of his pretended friends, he is more vehemently exafperated, and a too great confidence in his own righteoufnefs leads him to expoltulate with God in terms fearcely confiftent with pity and firict decorum.

It muit be obferved, that the firft fpeech of Job, though it burlls forth with all the vehemence of paffion, confilts wholly of complaint, "the words and fentiments of a defpairing perfon, empty as the wind ";" which is indeed the apulogy that he immediately naakes for his conduct ; intimating, that he is far from prefaming to plead with God, far from daring to call in queftion the divine decrees, or even to mention his own imnocence in the prefence of his all-juft Creator : nor - is there any good reafon for the cenfure which has been pafled by fome commentators on this paffage. The poet feems, with great judgement and ingenuity, to have performed in this what the nature of his work required. He has depicted the affliction and anguin of Job, as flowing from his wounded heart in a manner fo agreeable to human nature (and certainly fo far venial), that it may be truly faid, "in all this Job finned not with his lips." It is, neverthelefs, embellifhed by fuch affecting imagery', and infpired with fuch a warmith and force of fentiment, that we find it afforded ample fcope fur calunny ; nor did the unkind witnefes of his fufferings permit fo fair an opportunity to efcape. The occafion is eagerly embraced by Eliphaz to rebuke the impatience of Job; and, not fatisfied with this, he proceeds to accufe him in direct terms of wanting fortitude, and obliquely to infinuate fomething of a deeper dye. Though deeply hurt with the coarfe reproaches of Eliphaz, Atill, however, when Job afterwards complains of the feverity of God, he cautioufly refrains from violent expoltulations with his Creator, and, contented with the fimple expreflion of affliction, he humbly con-
$t$ See chap. feffes himelf a finner $t$. Hence it is evident, that thofe vii. 22. vehement and perverfe atteftations of his innocence, thoie murmurs againt the divine Providence, which his tottering virtue afterwards permits, are to be confidered merely as the confequences of momentary paffion, and not as the ordinary effects of his fettled character or manners. They prove him at the very worft not an irreligious man, but a man poffeffed of integrity, and too confident of it; a man oppreffed with almoft every imaginable evil, both corporal and mental, and hurried beyond the limits of virtue by the frong influence of pain and affliction. When, on the contrary, his importunate vifitors abandon by filence the caule which they had fo wantonly and fo mal:cioufly maintained, and ceafe unjuftly to load him with unmerited criminations; though he defends his argument with fcarcely lefs obftinacy, yet the vehemence of his grief appears gradually to fubfide, he returns to himfelf, and explains his fentiments with more candour and fedatenefs': and however we may blame him for afiuming rather too much arro. gance in his appeals to the Almighty, certainly his defence againt the accufations of Eliphaz is no more than the occafion will ftrictly juftify. Obferve, in the firft place, how admirably the confidence and perfeverance
of Job is difplayed in replying to the llander of his falfe Scripture. friends:
3.3

As God liveth, who hath removed my judgement; Ifis confi-
Nay, as the Almighty liveth, who hath imbittered my dence and foul;
rance.
Verily as long as I have life in me,
And the breath of God is in my noftrils;
My lips fhall not fpeak perverfity,
Neither thall my tongue whifper prevarication.
God forbid that I ihould declare you righteous !
Till I expire I will not remove my integrity from me.
I have fortified rayfelf in my righteoufnefs,
And I will not give up my ftation :
My heart thall not upbraid me as long as I live.
May mine enemy be as the impious man,
And he that rifech up againtt me as the wicked *. *Chap.
But how magnificent, how noble, how inviting and ${ }^{\text {Nxvi. 2-7- }}$ beautiful is that image of virtue in which he delineates his paft life! What dignity and authority does he feem to poffers!
If I came out to the gate, nigh the place of public re. fort,
If I took up my feat in the ftreet;
The young men faw me, and they kid themfelves;
Nay, the very old men rofe up and itood.
The princes refrained talking,
Nay, they laid their hands on their mouths.
The nobles held their peace,
And their tongue cleaved to the roof of their mouth $\dagger \cdot+$ Chap.
What liberality ! what a promptitude in beneficence ! vxix. 7 -rs.
Becaufe the ear heard, therefore it bleffed me ;
The eye alfo faw, therefore it bare teltimony for me.
That I delivered the poor who cried,
The orphan alfo, and him who had no helper.
The bleffing of him who was ready to perifl came upon me,
And I caufed the heart of the widow to fing for joy $\ddagger$. $\ddagger$ Chap.

I put on righteoufnefs, and it clothed me like a robe;
My juftice allo was a diadem.
I was a father to the poor,
And the controverfy which I knew not, I fearched it out.
Then brake I the grinders of the oppreffor,
And I plucked the prey out of his teeth $\wp$.
§ Chap.
xxix. 14 ,

But what can be more engaging than the purity of his $\mathbf{1 6 . 1 7 .}$ devotion, and his reverence for the Supreme Being, founded on the beft and moft philofophical pririciples? Befides that through the whole there runs a ftrain of the moft amiable tendernefs and humanity :
For what is the portion which God difributeth from above,
And the inheritance of the Almighty from on high ?
Is it not deftruction to the wicked,
And banifliment from their country to the doers of iniquity?
Doth he not fee my ways?
And numbereth he not all my 凤eps?
If I fhould defpife the caufe of my fervant,

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Scripture. Or my maid, when they had a controverly with me, What then fhould I do when God arifeth, And when he vifiteth, what anfwer could I make him ?
$\dagger$ Chap.
xxxi. 2-1. $1 ;-1:$.

34
acters of his there friends.
$\ddagger$ Chap.
iv. 2 .
it Char.
マi: 2.

* Chap.
xi. $=3$.

OfEiles.

Did not he who formed me in the belly form him, And did not one fallion us in the womb $\dagger$ ?

The three friends are exactly fuch characters as the nature of the pocm required. They are fevere, irritable, malignant cenfors, readily and with apparcnt fatisfaction deviating from the purpofe of contilation into reproof and contumely. Even from the very firit they manifert this evil propenfity, and indicate what is to be expected from them. The firt of them, indeed, in the opening of his harangue, aflumes an air of candour :
Wouldf thou take it unkirdly that one flould cflay to fpeak to thee $\ddagger$ ?

Indignation is, however, inftantly predominant:
But a few words who can fcebear?
The focond flames forth at once :
How long wilt thou trifle in this manner ?
How long finll the words of thy mouth be as a mighty wind $g$ ?
But remarl the third :
Shall not the mafter of words be anfwered?
Or fhall a man be acquitted for his fine fpeeches?
Shall thy prevarications make men filent ?
Shall thou even fcoff, and there be no one to make thee athamed *?
The lenity and modcration of Elihu ferves as a beautiful contrait to the intemperance and afperity of the other three. He is pious, mild, and equitable ; equally free from adulation and feverity; and endued with fingular wifdom, which he attributes entirely to the infpiration of God: and his modefty, moderation, and wifdom, are the more entitled to commendation when we conlider his unripe youth. As the characters of his detractors were in all refpects calculated to inflame the mind of Job, that of this arbitrator is admirably adapted to foothe and compofe it : to this point the whole drift of the argument tends, and on this the very purport of it feems to depend.

Another circumflance deferving particular attention in a poem of this hind, is the fentiment; which muft be agreeable to the fubject, and embellifhed with proper expreffion. It is by Arilotle enumerated among the effentials of a dramatic poem; not indeed as peculiar to that fiecies of poetry alone, but as common, and of the greateft importance, to all. Manners or character are eflential only to that poetry in which living perfons are introduced; and all fuch poems mult afford an exact reprefentation of human manners: but fentiment is effential to every poem, indeed to every compofition whatever. It relipects both perfons and things. As far as it regards perfons, it is particularly concerned in the delineation of the manners and paffions: and thofe inftances to which we have juft been adverting are fentiments expreffive of manners. Thofe which relate to the delineation of the paffions, and to the defcription of other lub. jects, yet remain unnoticed.

The peem of Jub abounds chicfly in the more veliement pafions, grief and anger, indignation and violent
contention. It is adapted in every refpeet to the in- Scriptura citement of terror; and, as the fpecimens already quoted will fufficiently prove, is uriverially animated with Sertments the true fpirit of fublimity. It is, however, not wanting of the is the genller paffions. The following complaints, for poem of inflance, are replete with an affecting fpirit of melan- Job. choly :
Man, the offspring of a woman,
Is of few days, and full of inquietude;
He fpringeth up, and is cut off like a llower;
He flee-eth like a fhadow, and doth not abide :
On fuch a creature doft thou open thine cyes?
And wilt thou bring me even into judgement with thee?
Turn thy look from him, that he may have fome refpite,
Till he flall, like a hireling, have completed his day $\dagger .+$ Chaps
The whole paffage abounds with the moft beautiful ${ }_{3}{ }_{3}, 6$. ${ }^{\text {T, }}$ imagery, and is a moft perfect fpecimen of the Elegiac. His grief afterwards becomes more fervent; but is at the fame time foft and querimonious.
How long will ye vex my foul,
And tire me with vain harangues?
Thefe ten times have ye loaded me with reproaches,
Are ye not afhamed that ye are fo obftinate againft me ?
Pity me, O pity me, ye are my friends,
For the hand of Cod hath fmitten me.
Why will ye be my perfecuturs as well as God, $\ddagger$ Chap. And therefore will ye not be fatisfied with my flefh $\ddagger$ ? $\begin{gathered}\text { xix. } 21,22, \\ 21,22\end{gathered}$
The ardour and alacrity of the war-horfe, and his is fubli eagernefs for battle, are painted with a mafterly hand : mits.
For eagernefs and fury he devoureth the very ground :
He believeth it not when be heareth the trumpet.
When the trumpet foundeth, he faith, ahah!
Yea he fcenteth the battle from afar,
The thunder of the chieftains and their fhouts *. * Chap.
The following fublime defription of the creation is $\frac{x x x i x . ~}{24}$, admirable:
Where waft thou when I laid the foundations of the earth ?
If thou knoweft, declare.
Say, who fixed the proportions of it, for furely thous knoweft ?
Or who ftretched out the line upon it ?
On what were its foundations fixed?
Or who laid the corner-ftone thereof?
When the morning-ftars fang together,
And all the fons of God fhouted for joy ;
When the fea was flut up with doors;
When it burft forth as an infant that cometh out of the womb;
When I placed the cloud for its robe,
And thick darknefs for its fwadling-band;
When I fixed my boundary againft it,
When I placed a bar and gates;
When I fiid, Thus far flalt thou come, and not advance,
And here flall a flop be put to the pride of thy waves,++ Joh
Let it fuffice to fay, that the dignity of the flyle is ${ }_{4}^{\text {rxwif! }}$. anfiverable to that of the fubject ; its force and energy, to the greatnefs of thofe paftions which it defcribes: and as this production excels all the other remains of

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Scripture. the Hebrew poetry in economy and arrangement, fo it yields to none in fublimity of flyle and in every grace and excellence of compofition. Among the principal of thefe may be reckoned the accurate and perfectly peetical conformation of the fentences, which is indeed generally molt oblervable in the moft ancient of the poetical compofitions of the Hebrews. Here, however, as is natural and proper in a poem of fo great length and fublimity, the writer's 隹ll is difplayed in the proper adjuitment of the period, and in the accurate diitribution of the members, rather than in the antithefis of words, or in any laboured adaptation of the pa:allel-

The word Pfalms is a Greek term, and fignifies Songs. The Hebrews call it Scpher Tchitlinn", that is, "the Book of Praifes ;" and in the Golpel it is ftyled the Book of Pfalms. Great veneration has always been paid to this collection of divine fongs. The Chriltian church has from the beginning male them a principal part of her holy fervices; and in the primitive times it was almoft a general rule that every bifhop, prieft, and religious perfon, thould have the platter by heart.

Nany learned fathers, and not a few of the moderns, have maintained that David was the author of them all. Several are of a different opinion, and infift that David wrote only 72 of them; and that thofe without titles are to be afcribed to the authors of the preceding pfalms, whofe names are affixed to them. Thefe who fuppofe that David alone was the author, contend, that in the New Teitamènt, and in the language of the church univerfal, they are exprefsly called the Pfalms of David. That David was the principal author of thefe hymns is univerfally acknowledged, and therefore the whole col. lection may properly enough go under his name; but that he wrote them all, is a palpable mittake. Nothing certain can be gathered from the titles of the pfalms; for although unqueftionably very ancient, yet authors are not agreed as to their authority, and they differ as much about their fignification. The Hebrew doctors generally agree that the 92 d pfalm was compofed by
$56,16,54,52,109,17,22,35,57,5^{8}, 142,140$, Scripture. $141,7$.
3. The Pfalms compofed by David at the beginning of his reign, and after the death of Saul. Thefe are fixteen, $2,9,24,63,101,29,20,21,28,39,40$, 41, 6, 51, 32, 33 .
4. The Plalms written by David during the rebellion of Abfalom are eight in number; 3, 4, 55, 62, 70, 71, 143, ${ }^{144}$.
5. The Plalms written between the death of Abfalom and the captivity, which are ten, $18,30,72,45$, $78,82,83,76,74,79$ : of thefe David wrote only three ; 18,30 , and 72 .
6. The Plalms compofed during the captivity, which amount to forty. Thefe were chiefly compofed by the defcendants of Afaplı and Korah: they are 10, 12, 13, $1_{4}, 53,15,25,26,27,28,36,37,42,43,44,49$, $50,60,64,69,73,75,77,85,84,86,88,89,90$, $92,93,94,95,99,120,121,123,130,131,132$.

Lally, Thofe hymns of joy and thankfgiving, written on thic releafe from the Babylonifh captivity, and at the building and dedication of the temple. Thefe are, $122,61,63,124,23,87,85,46,47,48$, from 96 to 117 inclufive, 126,133 to 137 inclufive, 149 , $150,146,147,148,59,65,66,67,118,125,127$, 128, 129,138 . According to this diftribution, only 45 are pofitively affigned to David.

Jofephus, and molt of the ancient writers, affert, that the Pfalms were compofed in numbers: little, however, refpecting the nature and principles of the Hebrew verfification is known.

There exilted a certain kind of poetry among the He - Obferva- ${ }^{4 \circ}$ brews, principally intended, it would appear, for the tions on the affiliance of the memory; in which, when there was lit- Hebrew the conncction between the fentiments, a fort of order or peetry. method was preferved, by the initial letters of each line or ftanza following the order of the alphabet. Of this there are feveral examples extant among the facred poems ( 1 ) ; and in thefe examples the verfes are fo exactly marked and defined, that it is impofiole to miftake them for profe ; and particularly if we attentively confider the rerfes, and compare them with one another, fince they are in general fo regularly accommodated, that word mivers to word, and almoft fyllable to fyllable. This being the cafe, though an appeal can fcarcely be made to the ear on this occalion, the eyc itfelf will diflinguilh the poetic divifion and arrangement, and alfo that fome latour and accuracy has becn cm ployed in adapting the nords to the meafure.

The Hebrew poetry h.s likewife another property altogether peculiar to metrical compofition. It admits foreign words and certain perticles, which feldom occur in profe compofition, and thus forms a diftinct poetical dialect. One or two of the peculiarities alfo of the Hebrew verfification it may be proper to remark, which as they are very oblervable in thofe pooms in which the verfes are defined by the initial letters, may at leaf be reafonably onjectured of the relt. The firlt of thefe is, that the verfes are very unequal in length; the fhorteft conffiting of fix or feven fyllables; the longelt extending
(1) Pialms xx\%, ssvio, xu:xvii, cxi. cuii. cxix. cxlv. Prov. xxxi. from the 10 th verfe to the end. The whole of the Lamentatisis ©. Jeremiali cxcept the laft chapter.

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Scruture tending to about twice that number: the fame poem is, however, generally continued throughout in verfes not very unequal to each other. It muft alfo be obferved, that the clofe of the verfe generally falls where the members of the fentences are divided.

But although nothing certain can be defned concerning the metre of the particular verfes, there is yet another artifice of poetry to be remarked of them when in a collective itate, when feveral of them are taken together. In the Hebrew poetry, as is formerly remarked, there may be obferved a certain conformation of the fentences; the nature of which is, that a complete fenfe is alnoft equally infufed into every component part, and that every member conflitutes an entire verfe. So that as the poems divide themfelves in a manner fpontaneounly into periods, for the moft part equal ; fo the periods themfelves are divided into verfes, moft commonly couplets, though frequently of greater length. This is chiefly obfervable in thofe paffages which frequently occur in the Hebrew poetry, in which they treat one fubject in many different ways, and dwell on the fame fentiment; when they exprefs the fame thing in different words, or different things in a fimilar form of words; when equals refer to equals, and oppofites to oppofites : and fince this artifice of compofition feldom fails to produce even in profe an agreeable and meafured cadencewe can fearcely doubt that it muft have imparted to their poetry, were we mafters of the verffication, an exquifite degree of beatity and grace.

They-flvall-feek-me-early, but-they-Ghall-not find-me:
Becaufe they-hated knowledge;
And-did-not choofe the-fear of-Jehovah;
Did-not incline to-my-counfel;
Contemptuoufly-rejected all my-reproof;
Therefore-fhall-they-eat of-the-fruit of-their-ways;
And-fhall-be-fatiated with-their-own-devices.
For the-defection of-the-fimple fhall-flay-them;
And-the-fecurity of-fools thall-deftroy them.

$$
\text { Prov. i. } 24-32
$$

Seek-ye Jehovah, while-he-may-be-found ;
Call-ye-upon-him, while-he-is near;
Let-the-wicked forfake his-way;
And-the-unrighteous man his-thoughts :
And-let-him-return to Jehovah, and-he-will compation-ate-him;
And unto our-God, for he-aboundeth in-forgivenefs (K). IGiah Iv. 6. 7.
Thefe fynonymous parallels fometimes confift of two, three, or more fynonymous terms. Sometincs they are formed by a repetition of part of the firft fentence: As,
What fhall I do unto thee, O Ephraim !
What fall I do unto thee, O Judah!
For your goodnefs is as the morning cloud,
And as the early dew it paffeth away.
Hofea vi. 4 .
The following is a beautiful inftance of a parallel triplet, when three lines correfpond and form a kind of ftanza, of which two only are fynonymous.
That day, let it become darknefs;
Let not God from above inquire after it ;
Nor let the flowing light radiate upon it.
That night, let utter darknefs feize it ;
Let it not be united with the days of the year ;
Let it not come into the number of the months.
Let the ttars of its twilight be darkened;
Let it look for light, and may there be none;
And let it not behold the eyelids of the morning.
Job iii. 4, 6, 9 .
The fecond fort of parallels are the antithetic, when two lines correfpond with one another by an oppofition of terms and fentiments; when the fecond is contrafted with the firlt, fometimes in expreffions, fometimes in fenfe only. Accordingly the degrees of antithefis are various : from an exact contrapofition of word to word through the whole fentence, down to a general difparity, with fomething of a contrariety, in the two propofitions. Thus in the following examples:
A wife fon rejoicetb his father;
But a foolith fon is the grief of his mother.
Prov, x, 1.
Where every word hath its oppofite; for the terms father and mother are, as the logicians fay, relatively oppofite.
The memory of the juft is a bleffing;
But the name of the wicked fhall rot.
Prov, x. 7.
Here

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Scripture. Here there are only two antithetic terms: for memory and name are fynonymous.

There is that fcattereth, and fill increafeth ; And that is unreafonably fparing, yet groweth poor.

Prov, xi, 24.
Here there is a kind of double antithefis; one between the two lines themfelves; and likewife a fubordinate oppofition between the two parts of each.
Thefe in chariots, and thofe in horfes;
But we in the name of Jehovah our God will be ftrong. They are bowed down, and fallen;
But we are rifen, and maintain ourfelves firm.
Pf. x. 7. 7, 8.
For his wrath is but for a moment, his favour for life ;
Sorrow may lodge for the evening, but in the morning gladnefs.

Pf. xxx. 5 .
Yet a little while, and the wicked fhall be no more; Thou fhalt look at his place, and he fhall not be found: But the meek thall inherit the land;
And delight themelves in abundant profperity.

$$
\text { Pf. xxxvií. 10, } 11 .
$$

In the laft example the oppofition lies between the two parts of a fianza of four lines, the latter diftich being oppofed to the former. So likewife the following :
For the mountains fhall be removed;
And the hills tha!l be overthrown :
But my kindnefs from thee thall not be removed;
And the covenant of my peace fhall not be overthrown. Ifaiah liv. 10.
Ifaiah by means of the antithelic parallelifm, without departing from his ufual dignity, adds greatly to the fweetnefs of his compofition in the following inflances:
In a little anger have I forfaken thee ;
But with great mercies will I receive thee again :
In a fhort wrath I hid my face for a moment from thee;
But with everlating kindnefs will I have mercy on thee. Ifaiah liv. 7,8 .
Behold my fervants fhall eat, but ye fhall he famifhed;
Behold my fervants thall drink, but ye fhall be thirfty;
Behold my fervants fhall rejoice, but ye fhall be confounded;
Behold my fervants fhall fing aloud, for gladnefs of heart,
But ye fhall cry aloud for gripf of heart ;
And in the anguifh of a broken fpirit fhall ye howl.
Ifaiah lxv. $13,14$.
Frequently one line or member contains two fentiments :
The nations raged; the kingdoms were moved;
He uttered a voice; the earth was diffolved:
Be ftill, and know that I am God:
I will be exalted in the nations, I will be exalted in the earth.

Pf. xlvi. 6, 10.
When thou paffeft through waters I sm with thee;
And through rivers, they fhall not overwhelm thee:
When thou walkeft in the fire thou flalt not be fcorched; And the flame fhall not cleave to thee.

VoL. XVIII. Part II.

The third fort of parallels is the fynthetic or con- 5 -ripture. fructive : where the parallelinin confifts only in the fimilar form of conffruction; in which word does not anfwer to word, and fentence to fentence, as cquivalent or oppofite; but there is a correSpondence and equality between different propofitions, ii refpect of the flape and turn of the whole fentence, and of the coritructive parts; fuch as noun anfwering to noun, verb to verb, member to member, nergative to negative, interogati:e to interrogative.

Lo! he withholdeth the waters, and they are dried up.
And he fendeth them forth, and they overturn the earth.
With him is ftrength, and perfect exiftence ;
The deceived, and the deceiver, are his.

$$
\text { Job sii, } 13-16 .
$$

Is fuch then the fait which I choofe ?
That a man fhould afflict his foul for a day ?
Is it, that he fhould bow down his licad like a bulrufh.
And fpread fackeloth and afhes for his couch ?
Shall this be called a faft,
And a day acceptable to Jehovah ?
Is not this the falt that I choofe?
To diffolve the bands of wickednefs;
To loofen the onpreffive ourdens;
To deliver thol that are crufhed by violence,
And that ye froald break afunder every yoke
Is it not to dilaribute thy bread to the hungry
And to bring the wandering poor into thy h ule
When thou feeft the naked, that thou clothe him; And that thou hide not thyfe!f from thine orwn flefl Then thall thy light break forth like the morning; And thy wounds thall fpeedily be healed over: And thy righteoufnefs flall go before thee;
And the glory of Jehovah thall bring up thy rear."
ICaiah Iviii. 5-8.
We flall produce another example of this fpecies of parallelifm from Pf, xix. 8-11, from Dr Lowth :

The law of Jehovah is perfect, reftoring the foul;
The teftimony of Jehovah is fure, making wife the fimple :
The precepts of Jehovail are right, rejoicing the heart;
The commandment of Jehovah is clear, enlightening the eyes :
The fear of Jehovah is pure, enduring for ever ;
The judgements of Jehovah are truth, they are juft altogether.
More defirable than gold, or than much fine gold;
And fweeter than honey, or the dropping of honeycombs.

Synonymous parallels have the appearance of art and concinnity, and a fludied elegance ; they chiefly prevail in florter poems ; in many of the Pfalmas; in Balaam's prophecies, frequently in thofe of Ifaiah, which are moft of them dilinet poems of no great length. The antithetic parallelifin gives an acutenefs and force to adages and moral fentences; and therefore abounds in Solomon's Proverbs, and elfewhere is not often to be met with. The poem of Job, being on a large fenle and in a high tragic ftyle, though very exact in the divifion of the lines and in the parallelifm, and affordins many fire examples of the fynonymous lidic' confift. - II

Scripture clienty of the conftructive. A happy misture of the leveral forts gives an agreeable varicty; and they mutually ferve to recommend and let off one another.

The reader will perceive that we have derived every thing we have faid relating to Hebrew poetry from the elegant Lectures of Dr Lowth, which are beautifully tranflated by Mr Gregory, a diltinguilhed author as well as tranflator.

The book of Proverbs has alrvays been accounted canonical. The Hebrew title of it is Mif:li*, uhich fignifics "fimilitudes." It has always been afcribed to Solomon, whole name it bears, though fome have doubted whether be really was the author of every one of the maxims which it contains. Thofe in chap. xxx. are indeed called the swords of Agur the fon of Jakeh, and the title of the $3^{1 \mathrm{ft}}$ or laft chapter is the word's of King Lemuel. It feems certain that the collection callcd the Proverbs of Solomon was digefted in the order in which we now have it by different hands; but it is not, therefore, to be concluded that they are not the work of Solomon. Several perfons might have made collections of them: Hezekiah, among others, as mentioned chapter xxv. Agur and Ezra might have done the fame. From thefe feveral colleftions the work was compiled which we have now in our hands.

The book of Proverbs may be confidered under five divifions, 1. The firt, which is a kind of preface, extends to the ioth chapter. This contains general cautions and exhortations from a teacher to his pupil, expreffed in elegant language, duly connected in its parts, illuffated with beautiful defcription, and well contrived to engage and intereft the attention.
2. The fecond part extends from the beginning of chap. x. to chap. xxii. 17. and confilts of what may ttrictly and properly be called proverbs, viz. unconnected fentences, exprefled with much neatnels and fimplicity. They are truly, to ufe the language of their fage author,' " apples of gold in pictures of filver."
3. In the third part, which is included between chapter xxii. 16. and chapter xxv. the tutor drops the fententious ftyle, addreffes his pupil as prefent, and delivers his advices in a connected manner.
4. The proverbs which are included between chapter xxv . and chapter xxx. are fuppofed to have been felected by the men of Hezelioh from fome larger collection of Solomon, that is, by the prophets whom he employed to reftore the fervice and writings of the church. Some of the proverbs which Solomon had introduced into the former part of the book are here repeated.
5. The prudent adroonitions which Agur delivered to his pupils Ithiel and Ucal are contained in the 30 th chapter, and in the 31 are recorded the precepts which the mother of Lemuel delisered to her fon.

Several references are evidently made to the book of

* Rom. xii. Proverbs by the writers of the New 'Teftament *.

The Proverbs of Solomon afford fpecimens of the
${ }_{2}$ Pet. iv.
8. v. 5
b. c .

The blows of a friend are faithful;
But the kiffes of an enemy are treacherous.
Script:ire,
The cloyed will trample on an honeycomb;
But to the hungry every bitter thing is fiseet.
There is who maketh himielf rich, and wanteth all things;
Who maketh himfelf poor, yet hath much wealth.
The rich man is wife in his own eyes,
But the poor man that hath difcernment to trace him out will defpife him $\dagger$.
$\dagger$ Proverbs
xiii. 7 . xxvini. If.

43
The Hebrew title of the book which we call Eccle-Ecclefiates, fiaftcs is Keleth, that is, the Gatherer or Collector; and it is fo called, either becaufe the work itfelt is a collection of maxims, or becaufe it was delivered to an affembly gathered together to hear them. The Greek term Ecclcfiafles is of the fame import, fignifying one who gathers together a congregation, or who difcourfes or preaches to an affembly convened. That Solomon was the author of this book is beyond all doubt; the beautiful defcription of the phenomena in the natural world, and their caufes; of the circulation of the blood, as fome think $\ddagger$, and the economy of the human fee Horframe, flew's it to be the work of a philofopher. At mon sefore what period of his life it was written may be eafily the Hiumans found out. The affecting account of the infirmities of Society. old age which it contains, is aftrong indication that the author knew by experience what they were; and his complete conviction of the vanity of all earthly enjoy. ments proves it to have been the work of a penitent. Some paffages in it feem, indeed, to exprefs an Epicurean notion of Providence. But it is to be obferved, that the author, in an academic way, difputes on both fides of the queftion; and at laft concludes properly, that to "fear God and keep his commandments is the whole duty of man ; for God (fays he) will bring every work to judgement, and every fecret thing, whether it be good, or whether it be evil."

The general tenor and ftyle of Ecclefiaftes is very different from the book of Proverbs, though there are many detached fentiments and proverbs interfperfed. For the whole work is uniform, and confined to one Lowth's fubject, namely, the vanity of the world exemplified by Poctry. the experience of Solomon, who is introduced in the character of a perfon inveftigating a very difficult queftion, examining the arguments on either fide, and at length difengaging himfelf from an anxious and doubtful dif. putation. 1t would be very difficult to diftinguifh the parts and arrangement of this production; the order of the fubject, and the connection of the arguments, are involved in fo much obfcurity, that fcarcely any two commentators have agreed concerning the plan of the work, and the accurate divifion of it into parts or fections. The truth is, the laws of methodical compolition and arrangement were neither known by the Hebrews nor regarded in their didactic writings. They uniformly retained the old fententious manner, nor did they fubmit to method, even where the occafion appeared to demand it. The ftyle of this work is, how: ever, fingular ; the language is generally low; it is frequently loofe, unconnected, approaching to the incorrectnefs of converfation; and poffeffes very little of the poetical character, even in the compofition and Atructure. of the periods: which peculiarity may podibly be ac-

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S..ipture. counted for from the nature of the fubject. Contrary to the opinion of the R,bbies, Ecclelialtes has been clafled among the poetical books; though, if their authority and opinions were of any weight or importance, they might perhaps on this occalion deferve fome attention.

The Song of Solomon, in the opinion of Dr Lowth, is an cpithalamiun or nuptial dialogue, in which the principal characters are Sulomon, his bride, and a chorus of virgins. Some are of opinion that it is to be taken altogetier in a literal fenle; but the generality of Jews and Chriltians have efteemed it wholly allegorical, exprefing the union of Jefus Chrift and the church. Dr Lowth has fuppoited the common opinion, by fhowing that the lacred writers ofton apply metaphors to God and his people derived from the conjugal ftate. Our Saxivur is flyled a bridegroom by John the Baptift (John iii.), and is reprefented in the fame character in the parable of the ten virgins. Michaelis, on the other hand, rejects the argument drawn from analogy as inconclufive, and the opinion of Jews and Chrillians as of no greater authority than the opinion of the moderns.

The fecond of thofe great divifions under which the Jews claffed the books of the Old Tellament was that of the Pruphets, which formerly comprehended 16 books.

The Ptonhets were 16 in number: Ifaiah, Jeremiah, Ezekiel, Daniel, H ca, Joel, Amos, Obadiah, Jonah, Micah, Nhum, Habakkuk, Zephaniah, Haggai, Zechariah, Malachi. The firit four are called the greater prophets; the other twelve are denominated the minor prophets.
45 The writings of the Prophets are to Chriftians the Writings of moft interefting part of the O d Tellament; for they afthe pro. phets. ford one of the moll powefful arguments for the divine origin of the Chriftian religion. If we could only prove, therefure, that thefe prophecies were uttered a fingle century before the events took place to which they relate, their claim to infpiration would be unqueftionable. But we can prove that the interval between their enunciation and accomplifhment extenced much farther, even to 500 and 1000 yeass, and in fome cafes

The bonks of the prophets are mentioned by Jofephus, and therefore furely evifted in his time ; they are alfo quoted by our Saviour, under the general denomination of the Prophels. We are informed by Tacitus and Suelonius, that about 60 years before the birth of our Saviour there was an univerfal expedtation in the eaft of a great perfonage who was to arife; and the fource of this expectation is traced by the fame writcrs to the facred books of the Jews. They exifted alfo in the time of Antiochus Epiphanes, A. C. 166; for when that tyrant prolitited the reading of the law, the books of the Prophets were fuoftituted in its place, and were continued as a part of the daily fervice after the interdict againft the l. w of Mofes was taken off. We formerly remarked, that references are made by the suthor of Ecclefinficus. A. C. 200, to the writings of Ifaiah, Jeremiah, and Lz kiel, and that he mentions the 12 Prophets. We can afeend fill higher, and afiert from the language of the Pro, hels, that all their writings muft have been com:ofed before the Batylonith captivity, or within a century after it; for all of them, cx-
$95] \quad \mathrm{S} C \quad \mathrm{R}$
cept Daniel and Ezra, are compoied in Hebrew, and Suipture. even in them long paffages are found in that language : but it is a we.i-known fact, that all the books written by Jews about two centuries after that era are compofed in the Syriac, Chaldaic, or Greck language. " Let any man ( (ays Michaclis) compare what was written in IIebrew after the Babylowith exile, and, i apprehend, he will preceive no lefs evident marks of decay than in the Latin language." Even in the time of Ezra, the common people, from their long refidence in Bubylon, had forgotten the Hebrew, and it was neceflairy for the learned to interpret the law of Miofes to them. We can therefore afcertain with very confiderable precifion the date of the prophetic writings; which indeed is the only important point to be determined: For whether we can difcover the authors or not, if we can only eftablifh their ancient date, we thall be fully eatitled to draw this conclufion, that the predictions of the Prophets are infpired.

Much has been written to explain the nature of infpitation, and to flow by what methods God imparted to the prophets that divine knowledge which they were commanded to publifh to their countrymen. Attempts have been made to difclofe the nature of dreams and vifions, and to defcribe the ecflacy or rapture to which the prophets were fuppofed to be raifed while they uttered their predictions. Not to mention the degrading and indecent comparifon which this laft circumfanice fuggefts, we fhally only inform thofe who expect here an esplanation of the prophetic dreams. and vifions, that we foall not attempt to be wife above what is uritten. The manner in which the allwife and unfeen God may think proper to operate upon the minds of his creatures, we might expect à priori to be mylterious and inexplicable. Indeed fuch an inquiry, though it were fuccefisful, would only gratify curiofity, without being in the leaft degrec conducive to ufeful knowledge.

The bufinefs of philofophy is not to inquire bow almighty power produced the frame of nature, and beflowed upon it that beauty and grandeur which is everywhere confpicuous, but to dicover thofe marks of intelligence and defign, and the ratious purpofes to which the works of nature are fubfervient. Philofophy has of late been directed to theology and the fudy of the Scriptures with the happiefl effects ; but it is not permitted to enter within the vail which the Lord of Natue has thrown over his councils. lis province, which is fufficientiy extenfive, is to examine the language of th - rophecies, and to difcover their application.

The chariacr of the prophetic fiyle varies according to the genius, the education, and mode of living of the refpaive authors, and there are fome peculiarities of their refpective authors; and there are fome peculiarities tyy c is n-
which run through the whole prophetic bouks. $\Lambda$ boucal. plain unadorned liyle would not have fuited thofe men who were to wrap the myfteries of futurity in a veil, which was not to be penetrated till the events themfelves fould be accomplilied. For it was never the intention of proplicey to unfold futurity to our view, a3 many of the raili interpreters of prophecy fondly im?gi.e; for this would be inconfiftent with the free agency of man. It was therefore agrceable to the wifdom of God that prophecies fhould be couched in a ianguage wi ich would render them unintelligible till the feriod of their cumpletion; yet fuch a langusge as i$\mathrm{SH}_{2}$ difinct,

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S-ripture. diftinet, regular, and would be eafily explained when the events themfelves fhould have taken place. This is preciely the character of the prophetic language. It is partly derived from the hieroglyphical fymbols of Egypt, to with the Ifraelites during their fervitude were familiarized, and partly from that analogy which fubfifts between natural objeets and thofe which are moral and political.

The prophets borrowed their imagery from the moft
P. + rowed form ana. log!,

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and irom interos 1 y p. is. $\mathrm{f}_{\mathrm{p}}$ lendid and fublime natural objeets, from the hof of heaven, from feas and mountains, from forms and earthquakes, and from the moft friking revolutions in nature. The celeflial bodies they ufed as fymbols to exprefs thrones and dignities, and thofe who enjoyed them. Earlh was the fvinbol for men of low eftate. Hades reprefents the milerable. A/cending to heaven, and defcending to earth, are phrafes which exprefs riming to power, or falling from it. Great earthquakes, the Jbaking of heaven and earth, denote the commotions and overthrow of kingdoms. The fun reprefents the whole race of kings fhining with regal power and glory. The moon is the fymbol of the common people. The fiars are fubordinate princes and great men. Light denotes glory, truth, or knowledge. Darkne/s exprefies obfcurity of condition, error, and ignorance. The darkening of the fiun, the turning of the moon into blood, and the falting of the Aars, fignify the deftruction or defolation of a kingdom. Jow moons, the returning of a nation from a dilperfed fta:e. Conflagration of the earth, is the fymbol for dettruction by war. The afcent of fmoke from any thing burning for ever, denotes the continuance of a people unde: flavery. Riding in the clouds, fignifies reigning over many fubjects. Tempefluous atinds, or morisn of the ciouds, denote wars. Thundir denotes the no: Fe of multitudes. Fountains of waters exprefs cities. Mountains and jiands, cities with the territories belonging to them. Houfes and fhips fland for families, af$f \in \mathrm{mulies}$, and torws. A $\hat{f} \cdot \mathrm{ref}$ is put for a kingdom. A wildernefs for a nation much diminifhed in its numbers.

Animals, as a lion, bear, leopard, goat, are put for kingdoms or political communities correfponding to their refpective charafters. When a man or beaft is put for a kin-dom, the head reprefents thofe wbo govern ; the tail thofe who are governed ; the hicras denote the number of military powers or flates that rife from the head. Seeing fignifies underftanding; cyes men of undertanding; the mouth denotes a lawgiver; the a-m of a man is put for power, or for the people by whofe ftrength his power is exercifed ; feet reprefent the loweft of the people.

Such is the precifion and regularity of the prophetic language, which we learn to interpret by comparing. prophecies which are accompiifhed with the facts to which they correfpond. So far is the ftudy of it carried already, that a dietionary has been compofed to explain it ; and it is probable, that in a hort time it may be fo fully underfood, that we fhall find little dif. ficulty in ex-laining any probinecy. But let us not from this expeet, that the yroplecies will enable us to
penetrate the dark clouds of futurity : No! The diffi- Scripture culty of applying prophecies to their correfponding events, before coanpletion, will ftill remain infurmountable. Thofe men, therefore, however pious and wellmeaning they may be, who attempt to explain and apply prophecies which are not yet accomplifhed, and who delude the credulous multitude by their own romantic conjectures, cannot be acquitted of rafhnefs and prefuraption.

The predictions of the prophets, according to the Is alio opinion of Dr Lowth, are written in a poetic ftyle. poctical. They poffefs indeed all the characterillics of Hebretv poetry, with the fingle exception, that none of them are alphabetical or acroftic, which is an artificial arrangement utterly repugnant to the nature of prophecy.

The other arguments, however, ought to be particularly adverted to on this fubject : the poetic dialect, for inflance, the diction fo totally different from the language of common life, and other fimilar circumftances, which an attentive reader will eafily difcover, bot which cannot be explained by a few examples; for circumftances which, taken feparately, appear but of frall account, are in a united view frequently of the greateft importance. To thefe we may add the artificial conformation of the fentences; which is a nece?fayy concomitant of metrical compofition, the only one indeed trlich is now apparent, as it has always appeared to us.

The order in which the books of the minor prophets are placed is not the fame in the Septuagint as in the Hebress *. According to the latter, they fland as in *Chronsico our tranlation; but in the Greck, the feries is altered gy cftbe as to the firft fix, to the following arrangement : Ho. Prophets. fea, Amos, Micah, Joel, Obadiah, Jonah. This change, however, is of no confequence, fince neither in the original, nor in the Septuagint, are they placed with exact regard to the time in which their facred authors reipectively flourifhed.

The order in which they fhould fland, if chronologically arranged, is by Blair and others fuppofed to be as follows: Jonah, Amos, Hofcah, Micah, Nahum, Joel, Zephaniah, Habakkuk, Obadiah, Haggai, Zechariah, Malachi. And this order will be found to be generally confiftent with thre periods to which the Prophets will be refpectively affigned in the following pages, except in the inftance of Joel, who probably flourifhed rather earlier than he is placid by thefe chronologifts, The precife period of this prophet, however, cannot be afcertained; and fome difputes might be maintained concerning the priority of others alfo, when they were nearly contemporaries, as Amos and Hofea ; and whera the firft prophecies of a later prophet were delivered at the fame time with, or previous to, thofe of a prophet who was called earlier to the facred office. The following feheme, however, in whichallo the greater prophets will be introduced, may enable the retder nore accurately to comprehend the actual and relative periods in which they feverally prophafied.
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Scripture.
The Prophets in their fuppofed Order of Time, arranged according to Blair's Tables* with but little variation.

|  | Before Chrij. | Kings of Judah. | Kings of I/rael. |
| :---: | :---: | :---: | :---: |
| Jonah, | Between 856 and 78 . |  | Jehu, and Jehoahaz, according to Lloyd ; but Joafh and Jeroboam the Second according to Blair. |
| Amos, | Between 810 and 785 . | Uzziah, chap. i. 1. | Jeroboam the Second, chap. i. I. |
| Hofea, | Between 810 and 725 . | Uzziah, Jotham, Ahaz, the third year of Hezekiah. | Jeroboam the Second, chap. i. I. |
| Ifaiah, | Between 8 10 and 698. | Uzziah, Jotham, Ahaz, and Hezekiah, chap. i. I. and perhaps Manaffeh. |  |
| Joel, | Between 810 and 660 , or later. | Uzziab, or poffibly Manaffeh. |  |
| Micah, | Between 758 and 699 . | Jotham, Ahaz, and Hezekiah, chap. i. I. | Pekah and Hofea. |
| Nahum, | Between 720 and 698. | Probably towards the clofe of Hezekiah's reign. |  |
| Zephaniah, | $\begin{aligned} & \text { Between } 640 \\ & \text { and } 609 \text {. } \end{aligned}$ | In the reign of Jofiah, chap. i. 1 . |  |
| Jeremiah, | $\begin{aligned} & \text { Between } 628 \\ & \text { and } 586 . \end{aligned}$ | In the thirteenth year of Jofiah. |  |
| Habakkuk, | $\begin{aligned} & \text { Between } 612 \\ & \text { and } 598 . \end{aligned}$ | Probably in the reign of jehoiakim. |  |
| Daniel, | $\begin{aligned} & \text { Between } 606 \\ & \text { and } 534 \text {. } \end{aligned}$ | During all the Captivity. |  |
| Obadiah, | Between 588 and 583 . | Between the taking of Jerufalem by Neuuchadnezzar and the deftruction of the Edomites by him. |  |
| Ezekiel, | Between 595 and 536 . | During part of the Captivity. |  |
| Haggai, | $\begin{aligned} & \text { About } 520 \\ & \text { to } 518 \text {. } \end{aligned}$ | After the return from Babylon. |  |
| Zechariab, | From 520 to 518, or longer. |  |  |
| Malachi, | $\begin{aligned} & \text { Between } 43^{6} \\ & \text { and } 397 . \end{aligned}$ |  |  |

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- :ri"ture. $\xrightarrow{\text { Cll }}$ Itaidh.
1.anh is fuppoied to have entered on the prophe. tic olific in the lat year of the reign of Uzziah, about $75^{\circ}$ ycars before Chritt : and it is certain that he lived to the 1 th or 16 th years of Hezekiah. This makes the lealt poffible term of the duration of his prophetical office about $4^{8}$ years. The Jews have a tradition that I:ash was put to death in the reign of Manaffeh, being fawn afunder with a wooden faw by the command of that ty rant: but when we recollect how much the traditions of the Jews were condemned by our Saviour, we will not be dif. fed to give them much credit. The time of the delivery of lome of his prophecies is either exprefsily marked, or fufficiently clear from the hiflory to when they relate. The date of a few others may with fome probability be deduced from internal marks; from expreflions, defcriptions, and circumflances interwoven.
1faiah, the firft of the prophets both in order and dignity, absunds in fuch trarficendant excellencies, that he may be properly faid to afford the moff perfect model of the prophetic poetry. He is at once elegant and fublime, forciible and ornamented; he uni:es energy with copioufnefs, and digaily with variety. In his fentiments there is uncormon cievation and majelty; in his imagery the utmoll propriety, elegance, dignity, and diverfity; ; in his language uncommon beauty and energy; and, notwithftanding the obfcurity of his fubjects, a furprifing degree of clearnefs and fimplicity. To thefe we may add, there is fuch fweetnefs in the poetical compofition of his fentences, whether it proceed from art or genius, that if the Hebrew poetry at prefent is pofieffed of any remains of its native grace and harmony, we thall chiefly find them in the writings of Ifaiah: fo that the faying of Ezekiel may moft jultly be applied to this prophet :

Thou art the confirmed exemplar of meafures, Full of widdom, and perfeet in beauty *.
Ifaiah greatly excels too in all the graces of method, order, connection, and arrang cment : though in afferting this we muft not forget the nature of the prophetic impulfe, which bears away the mind with irrefiftible violence, and frequently in rapid tranfitious from near to remote objects, from human to divine; we muft alfo be careful in remarking the limits of particular predictions, fince, as they are now extant, they are often improperly tomected, without any marks of difcrimination; which injudicious arrangement, on fome occafions, creates alnott infuperable difficulties. It is, in fact, a body or collection of different prophecies, nearly allied to each other as to the fu.ject, which, for that reafon, having a fort of connection, are not to be feparated but with the utmolt difficulty. The general fubject is the reltoration of the church. Its deliverance from captivity; the deftruction of idolarry; the vindication of the disine poner and truth; the confolation of the Ifraelitec, he divine invitation which is extended to them, their incre sulity, impiety, and rejection; the calling in of the Geniles; the re foration of the chofen people; the glory and fe'icity of the cluurch in its perfect ftate; an l the vitimate deflruction of the wicked-are all fet forth with a fufficient refpect to order and method. If we read thefe p.rines with attention, and duly regard the natire and geliiss of the myfical allegory, at the fame time semembering that all thefe points have been
frequently touched upon in other prophecies promulged Scriptree. at d.ficent times, we thall neither find any irregularity in the arrangement of the whole, nor any want of order and connection as to matter or fentiment in the different parts. Dr Lowth effeems the whole book of Ifaiah to be poetical, a few paffages excepted, which, if brought togeher, would not at molt exceed the bulk of five or fix chapters.

The 14th chapter of Ifaiah is one of the moft fu- Unparalleto blime odes in the Scripture, and contains one of the ed fubli nobielt perfonifications to be found in the records of mity or the poetry. The prophet, after predicting the liberation of the $t$ 14th chapJews from their fevere captivity in Babylon, and their relloration to their own country, introduces them as reciting a kind of triumphal fong upon the fall of the Babylonilh monarch, replete with imagery, and with the moft elegant and animated perfonifications. A fudden exclamation, expreffive of their joy and admiration on the uncxpecied revolution in their affairs, and the deftruction of their tyrants, forms the exordium of the poem. The earth ifelf triumphs with the inhabitants thereof; the fir-trees and the cedars of Lebanon (under which images the parabolic ilyle frequently delineates the kings and princes of the Gentiles) exult with joy, and perfecute with contemptuous reproaches the humbled power of a ferocious enemy:
The whole earth is at reft, is quiet ; they burft forth into a joyful fhout :
Even the fir-trees rejoice over thee, the cedars of Lebanon:
Since thou art fallen, no feller hath come up againft us.
This is followed by a bold and animated perfonification of Hades, or the infernal regions:
Hades from beneath is moved becaufe of thee, to meet thee at thy coming :
He roufeth for thee the mighty dead, all the great cliefs of the earth;
He maketh to rife up from their thrones all the kings of the nations.
Hades excites his inhabitants, the ghofts of princes, and the departed firit of kings : they rife immediately from their feats, and proceed to make the monarch of Babylon ; they infult and deride him, and comfort themfelves with the view of his calamity :
Art thou, even thou too, become weak as we ? art thou made like unto us?
Is then thy pride brought down to the grave; the found of thy furightly infruments?
Is the vermin become thy couch, and the earthworm thy covering ?
Again, the Jewifl people are the fpeakers, in an exclamation after the manner of a fureral lamentation, which indeed the whele form of this compofition exanlly imitates. The remarkable fall of this powerful monarch is thus beautifully illuffrated :
How art thou fallen from heaven, O Lucifer, fon of the morning!
Art cut down from earth, thou that didf fubdue the nations!
Yet thou didft lay in thy heart, I will afcend the heavens;

Above

## S C R [ 799 ] S C R

Scripture. Above the ffars of God I will exait thy throne ;
And I will fit upon the mount of the divine prefence, on the fides of the north :
I will afcend above the heights of the clouds; I will be like the moft High.
But thou fhalt be brought down to the grave, to the tides of the pit.
He himfelf is at length brought upon the flage, boafting in the moft pompous terms of his own power; which furnihes the poet with an excellent opportunity of difplaying the unparalleled mifery of his downfal. Some perfons are introuuced, who find the dead carcafe of the king of Babylon catl out and expofed ; they attentively contemplate it, and at laff fcarcely know it to be his :
Is this the man that made the earth to tremble, that fhook the kingdoms?
That made the world like a defert, that deftroyed the cities?
That never difmiffed his captives to their own home ?
All the kings of the nations, all of them,
Lie down in glory, each in his fepulchre :
But thou art caft out of the grave, as the tree abominated :
Clothed with the flain, with the pierced by the fword,
With them that go down to the flones of the pit; as a trodden carcafe.
Thou flalt not be joined to them in burial ;
Becaufe thon haft deftroyed thy country, thou haft flain thy people:
The feed of evil doers fhall never be renowned.
They reproach him with being denied the common
rites of fepulture, on account of the cruelty and atrocity Scripture. of his conduct ; they execratc his name, his offspring, and their polferity. A folemn addrefs, sa of the Dcity himfelf, clofes the fcene, and he denounces againft the king of Babylon, his pofterity, and even againft the city which was the fcene of their cruelty, perpetual deffruction, and confirms the immutability of his own counfels by the folemnity of an oath.

How forcible is this imagery, how diverfified, how〔ublime! how elevated the diction, the figures, the fentiments !-The Jewifh nation, the cedars of Lebanon, the ghoils of departed kings, the Babylonilh monarch, the travellers who fint his corpfe, and laft of all Jehovah himfelf, are the characters which fupport this beautiful lyric drama. One continued action is kept up, or rather a feries of intereiting actions are connected together in an incomparable whole. This, indeed, is the principal and dillinguifhed excellence of the fublimer ode, and is difplayed in its utmoft perfection in this poem of I Iaiah, which may be confidered as one of the moft ancient, and certainly the moff finifhed, fpecimen of that fpecies of compofition which has been tranfmitted to us. The perfonifications here are frequent, yet not confufed ; bold, yet not improbable : a free, elevated, and truly divine firit, pervades the whole; nor is there any thing wanting in this ode to defeat its claim to the character of perfect beauty and fublimity. "If (fays Dr Lowth) I may be indulged in the free declaration of my own fentiments on this occafion, I do not know a fingle inftance in the whole compafs of Greek and Roman poetry, which, in every excellence of compofition, can be faid to equal, or even approach it."

## END OF THE EIGHTEENTH VOLUME.

Erratum.-Page 366, note at bottom, in fome copies, infead of This was the name given to the palace of the Grand Duke, \&c. read as follows: The Kremlin, or Kreml, is a particular quarter of Mofco, where ftands the palace of the tzars, firlt built of fone by Dimitri Ivanovitch Donki in 1367 . See Mosco.

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RESD I - NOY OU'OL



[^0]:[^1]:    $\qquad$

[^2]:    

[^3]:[^4]:    O

[^5]:    (A) We recommend it to the reader to make this diffribution or allotment of the different portions of the preffiure very familiar to his mind. It is of the moft extenfive infiuence in every queftion of hydraulics, and will on every occafion give him diftinet conceptions of the internal procedure. Obvious as the thought feems to be, it has efcaped the attention of all the writers on the fubject. Lecchi, in his Hydranlics publifhed in 1766, afcribes fomething like it to Daniel Bernoulli; but Bernoulli, in the pnflage quoted, only fpeaks of the partition of preflure in the inftant of opening an orifice. Part of it, fays he, is employed in accelerating the quiefcent water, and producing the relocity of efflux, and the remainder produces the preffure (now dimitithed) on the fides of the veffel. Bernoulli, Boflut, and all the good writers, make this diftribution in exprefs terms in their explanation of the motion of water through fuccelfive orifices; and it is furprifing that no one before the Chevalier de Buat faw that the refiltance arifing from friction required a fimilar partition of the preflure; but though we fhould call this good fortune; we mult afcribe to his great fagacity and juftnefs of conception the beautiful we that he has made of it: " Juum cuigue."

[^6]:    

[^7]:    Tol．XVIII．Patt I．

[^8]:    R.*r
     R....

[^9]:    2 Eing on each particle feparately. It is this point only when all the particles gravitate alike, and in parailel direPtions. If the body were near the centre of the earth, for infance, the gravitations of the different particles would peither be nearly equal nor in parallel lines; and the place of its real centre of gravity, on which the equivalent of its whole gravitation may be fuppoled to aet, would be very diferent from G. Were we to denominate the point G, as ufually determined, by its mathematical properties, we would call it the CENTRE OF POSition; hecaufe its diftance from any plane, or its pofition with refpect to any plane, is the average diftance and pofition of all the particles. The true defignation of G is " the point through which if any plane whatever be made to pafs, and if perpendiculars to this plane be drawn from every particle, the fum of all the perpendiculars on one fide of this plane is equal to the fum of all the perpendiculars on the other fide."
    If we were to denominate $G$ by its meer nical propertie; we would call it the CENTRE of infrita; for this is equal in every particle, and in the fame rection : and it is not in confeguence of gravity, but of inertia, that the bedy deferibes with the point $G$ a line parallel to $I P$. We wifh this remark to be kept in mind.

[^10]:    (1) In cur orthography of the names of perfons and places we have followed $\operatorname{Mr}$ Tooke, who has evplained the

[^11]:    (c) The Krivitfches were a Slavonian tribe who inhabited the regions bordering on the upper parts of the rivers Volga, Dvina, Oka, and Diiepr, where are now the govermments of Polotzk, Smolenfk and Minfk. The Tchras des whom we have mentioned as forming part of Oleg's army, were a nation of Finnifh extraction, and inhabitecs thofe diftricts which form part of the prefent governments of Pfoov and. Reval.

[^12]:    

[^13]:    

[^14]:    (E) Previous to the reign of Vafili, the predererer of the monarch whore trat factions we are now relating, the Ruffian fovereigns had held the title of Velikii Knisz, which has been tranflated great duke, thorgh it more properly denotes prand prince; and t.y this lat'er appellation we have accordingly dittinguifted the preceding monarchs. Vafiti, near the ronclufing of his reigr, adopted the title of tzar, or emperor; I ut this title was pat fully eftablithed till the fucer fes and increafing power of his fon Ivan enabled the latter to confirm it both at ho-.e and abroad: and fince his time it 'as been uniwerfally ackneuledged.

[^15]:    
    

[^16]:    (F) This ranfaction is, by moft hiforians, placed urder the reign of Alexei, as we lave related it; but Mr Tooke, in his hiffory of Rufia (vol. ii. p. 37.), attributes the buning of the records of fervice, by which the nobles and chief courtiers held their offices, to Feodor.
    (G) The Strelitzes compofed the fanding army of Ruflia, and formed the body guard of the tzars. At this time they amounted to about 14,000 , and of courfe became a formidable engine in the bands of the enterprifing princefs.

[^17]:    (A) This, it feems, was once really the cafe. A Jew of Magdeburg fell into a privy on a Saturday. He might have been tahen out; but he told thofe who offered him their affifance to give themfelves no trouble, for there he was deterninced to keep holy the fabbath day. The bifhop, when he heard of it, refolved that he fhould inctify the next diy allo in the fame place; and fo, betwist them, the poor Jers lof his life.

[^18]:    1' Sowe authors have erroneoufly conjectured, from his name Saxo, that he was born in Saxony; but Saxe ir = : , Licammon appellation among the ancient Danes. See Olaus Wormius Monumenta Danica, p. 186, and Siephens's Prolegomena, p. 12.

[^19]:    

[^20]:    
    

[^21]:    $\qquad$

[^22]:    $\qquad$
    

[^23]:    

[^24]:    

[^25]:[^26]:    $\qquad$

[^27]:[^28]:    + L
    mittos

[^29]:    ru' 1.3. Tlis Cochran had biskeumont borne before him, overoilt wih gold; fo were all the rell of his homs; owd in tis nallions (pavilions or tents were of fane canvas of filk, and the cords thereof fine twined filh ; ard the ch it. .iva his pallicns were double cvergilt with gold."

[^30]:    

[^31]:[^32]:    

[^33]:[^34]:    5 D
    whole

[^35]:    (c) The general affembly owes its inftitution to the parliament that met in $\mathrm{I}_{5}$ Ko, by confent of Francis and

